

K L University



NAAC Accreditation - 2012

Part I – Institutional data

Section-A (University Data)

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A. University Data

1.	Name and address of the university	
	Name	KL University
	Village	Vaddeswaram
	District	Guntur
	State	Andhra Pradesh
	PIN	522502

2.	For communication
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Office					
Name	Area/ STD code	Tel. Number	Mobile Number	Fax Number	Email ID
Vice-Chancellor	08645	246948	9640052777	247249	vc@kluniversity.in
Registrar:	08645	246948	9848361325	247249	registraroffice@kluniversity.in
Steering Committee Co- coordinator	08645	246948	9848048545	247249	kkrao.kluhyd@gamil.com

Residence			
Name	Area/ STD code	Tel. Number(s)	Fax Number(s)
Vice-Chancellor	0	9640052777	08645-247249
Registrar	0	9848361325	08645247249
Steering Committee Co- coordinator	0	9848048545	08645-247249

3.	Status of the University:
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State University	
Central University	
State University	
University under Section 3 of UGC	√
Private University	
Institution of National Importance	
Any Other (specify)	

4.	Type of University
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Unitary	√
Affiliating	

5. Date of Establishment of the university :

Date of establishment of the university:	DD	MM	YYYY
i. Original (Date of autonomous status - Prior to establishment as a University)	06	09	2006
ii. As a University	20	02	2009

6. Date of UGC recognition as university :

Under Section	Date, month & Year (DD-MM-YYYY)	Remarks (if any)
i. 2f	20-02-2009	-
ii. 12B	-	-
iii. 3 of UGC	20-02-2009	-
iv. Any other (specify)	-	-

Certificates of recognition should be enclosed.

7. Does the University have a satellite campus? YES NO

8. Campus area in acres/sq.mts

i. Main campus area	43.56 Acres
ii. Satellite campus I area	
iii. Satellite campus II area	

9. Location of the University : (based on Government of India Census)

Urban	
Semi-urban	
Rural	√
Tribal	
Hilly Area	
Any other (specify)	
(In cases of University, omit question number 10, 11, 12, & b, c, d, e and f of 13)	

10. What is the total number of institution affiliated to the University?(Not Applicable)

Particulars of Colleges	Total	Permanently affiliated	Temporarily affiliated
Arts, Science & Commerce			
Law			
Medicine			
Engineering			
Education			
Management			
Others			

11. How much is the affiliation fee? (Not Applicable)

Permanent :	
Temporary :	

12. Does the University have a provision to grant autonomous status to its affiliated institutions?(Not Applicable)

YES	-	NO	-
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13. Furnish the following information:

Particulars	Number	No. of students
a. University Departments	10	7642
Non Academic departments	3	-
b. Constituent College	Not Applicable	Not Applicable
c. Affiliated Colleges –Govt. funded		
d. UGC recognized CPE (colleges for potential for Excellence)		
e. Autonomous Colleges		
f. Post –Graduate Teaching Centers in colleges		
g. Recognized Research Institutes / Centers	0	0
h. Self-financing Colleges	0	0
Total	13	7642

14. Current number of academic programs /courses offered within the University , under the following categories : (Enclose the list of academic programs offered)

Type of Program	Number of programs
UG(Engineering and Technology)	7
UG (Non Engineering and Technology)	3
PG(Engineering and Technology)	12
PG(Non Engineering and Technology)	2
Diploma	0
PG Diploma	0
M. Phil.	0
Ph. D	16
Total Regular Programs	40
Certificate courses	22
Total Programs	62

List of Program being offered by K L University

A. List of programs being offered during 2011-2012

Program Number	Name of the program	Field of study
List of UG Programs in Engineering		
1.	B.Tech (Bio Tech)	Computer Science and Engineering
2.	B.Tech (CIVIL)	Civil Engineering
3.	B.Tech (CSE)	Computer Science and Engineering
4.	B.Tech (ECE)	Electronics and Communication Engineering
5.	B.Tech (EC)	Electronics and Computers
6.	B.Tech (EEE)	Electrical and Electronics and Engineering
7.	B.Tech (ME)	Mechanical Engineering

List of UG Programs in Non Engineering		
1.	BHM	Bachelor of Hotel Management
2.	BBA	Bachelor of business administration
3.	B.com (Hons)	Finance Accounting

List of Engineering PG Programs		
1.	M. Tech	Bio Technology
2.		Structural Engineering
3.		Computer Science and Engineering
4.		Computer Networks and Security
5.		Communication and radar Systems
6.		VLSI
7.		Embedded Systems
8.		Power Electronics and Drives
9.		Power Systems
10.		CAD-CAM
11.		Thermal Engineering
12.		Computer Integrated Manufacturing

List of Non Engineering PG Programs		
13.	MBA	Business Administration
14.	MCA	Master of Computer Applications

List of Doctoral Programs		
1.	PhD	Bio technology
2.		Civil Engineering
3.		Computer Science and Engineering
4.		Computer Science
5.		Electronics and Communication Engineering
6.		Electronics and Computers
7.		Electrical and Electronics and Engineering
8.		Mechanical Engineering
9.		Physics
10.		Chemistry
11.		Mathematics
12.		English
13.		Management
14.		Aero space Engineering
15.		Communication and Soft Skills
16.		Nuclear Engineering

B. List of New Programs being offered from 2012-2013

Program Number	Name of the program	Field of study
List of New UG Programs		
1.	B.Tech (Aerospace Engineering)	Aerospace Engineering
2.	B.Tech (Engineering Physics)	Engineering Physics with Major in Electronics and communication Engineering
3.	B.Tech (Nuclear Engineering)	Nuclear Engineering

List of New PG Programs		
1.	MBA(Finance and Accounts)	Master of business administration in Finance and accounts
2.	MBA(Technology Management)	Master of business administration in Technology management

List of New Dual Degree Programs		
Program Number	Name of the program	Field of study
1.	B.Tech + M Tech	Bio Tech + Bio Tech
2.		Civil + Structures
3.		Civil + CSE
4.		CSE+CSE
5.		CSE+CNN
6.		CSE+ES
7.		ECE+VLSI
8.		ECE+CSE
9.		ECE+CNN
10.		ECE+ES
11.		EC+CSE
12.		EC+ES
13.		EC+CNN
14.		EC+VLSI
15.		EEE + Power Electronics
16.		EEE + Power Systems
17.		EEE + CSE
18.		EEE + ES
19.		EEE + VLSI
20.		MEE+ CAD/CAM
21.		MEE+ Thermal
22.		MEE+CSE
23.	B.Tech + MBA	Bio Tech + MBA
24.		CE+MBA
25.		CSE+MBA
26.		EC+MBA
27.		ECE+MBA
28.		EEE+MBA
29.		MEE + MBA

15.	Number of permanent and temporary members of the teaching staff.
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Type of Teacher	Female	Male	Total
Permanent teachers	12	104	116
Number of teachers with Ph.D. as the highest qualification	16	32	48
Number of teachers with M. Phil. as the highest qualification	115	259	374
Number of teachers with PG as the highest qualification	143	395	538

Temporary(Adhoc) teachers			
Number of teachers with Ph.D. as the Highest qualification			
Number of teachers with M. Phil. as the highest qualification			
Number of teachers with PG as the highest qualification			

Part-time teachers	-	-	-
Part-time teachers with Ph.D. as the Highest qualification	-	-	-
Part-time teachers with M. Phil. as the Highest qualification	-	-	-
Part-time teachers with PG as the Highest qualification	-	-	-

Total Faculty	Female	Male	Total
Number of teachers with Ph.D. as the Highest qualification	12	104	116
Number of teachers with M. Phil. as the highest qualification	16	32	48
Number of teachers with PG as the highest qualification	115	259	374
Total	143	395	538

16. Furnish the data on the number of students enrolled in the University during the current year , with the following details:

Type of Student	UG		PG		Total
	Professional	Non-professional	Professional	Non-professional	
Students from the same State where the university is located	6677	122	437	224	7460
Students from other States of India	0	0	0	0	0
NRI students	0	0	0	0	0
Foreign students	176	4	0	2	182
Grand Total	6853	126	437	226	7642

Number of Students	M. Phil	Ph .D	Diploma/ Certificate
From the same State where the University is located	0	145	2614
From other states	0	3	0
NRI Students	0	0	0
Overseas students	0	0	0
Total	0	148	2614

17. Unit cost of education?
 Unit Cost= Total annual expenditure budget (actual) divided by the number of students enrolled
 Total Expenditure budget in Rs.: **115,82,87,000**
 Total Number of student: **7,642**
Unit Cost in Rs per student: 1,51,568.00

18.	Does the University offer a distance education program (DEP)?	YES		NO	√
	If yes, indicate the number of courses offered				

19.	Number of full- time faculty employed in the DEP.	Not Applicable
20.	Any other general data the University would like to include Specify?	

K L University



NAAC Accreditation - 2012

Part I – Institutional Data

Section-B (Criteria wise data)

B. Criterion wise Inputs

Criterion I: Curricular Aspects

1.	Number of Program options						10
2.	Number of Subjects taught in the institution						724
3.	Number of overseas program on campus and Income earned	Number	Amount	Agency			
		---	---	---			
4.	Does the institution offer self-funded programs?	Yes	√	No			
	If yes, how many courses (Programs)?	40					
5.	Inter/multidisciplinary programs(2011-2012)	Yes	√	No		Number	03
	Inter/multidisciplinary programs(2012-2013)	Yes	√	No		Number	19
6.	Programs with Annual System	Yes		No	√	Number	0
7.	Programs with Semester	Yes	√	No		Number	40
8.	Programs with Trimester	Yes		No	√	Number	0
9.	Programs with choice based credit system	Yes	√	No		Number	40
10.	Programs with elective options	Yes	√	No		Number	40
11.	Courses(Programs) Offered in modular form	Yes	√	No		Number	40
12.	Courses with ICT –enabled teaching-learning Process	Yes	√	No		Number	28
13.	Courses where assessment of teaching –learning by students has been done	Yes	√	No		Number	28
14.	Programs with faculty exchange/visiting faculty	Yes	√	No		Number	05

15.	New programs (UG and PG) introduced during the last three years	Yes	√	No		Number	40
16.	Subjects in which major syllabus revision was done During the last five years	Yes	√	No		Number	724
17.	Compulsory internship (UGC+ other vocational Programs) 2011-2012	Yes	√	No		Number	7
	Compulsory internship (UGC+ other vocational Programs) 2012-2013	Yes	√	No		Number	10
18.	Courses in emerging areas	Yes	√	No		Number	240
19.	Number of Feedbacks obtained from employers	Yes	√	No		Number	03
20.	Provision for Course evaluation	Yes	√	No		Number	40
21.	Training programs arranged	Yes	√	No		Number	17
22.	Courses offered in modular form	Yes	√	No		Number	40
23.	Overseas Programs	Yes		No	√	Number	0
24.	<p>Any other data in Curricular Aspects (specify)</p> <p>The university has developed a curriculum design model by considering best of the features of the models like ABET and the AICTE recommended course composition structure.</p> <p>60% of the courses have been designed having the LAB Components along with theory. Many of the courses have been designed which requires usage of Tools which are industry approved.</p> <p>ICT is used quite effectively during implementation of all educational processes.</p>						

Criterion II: Teaching –Learning and Evaluation

1.	Number of working days during the last academic year	263
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2.	Number of teaching days during the last academic Year	182
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3.	Number of positions sanctioned and filled as on date		
	Cadre	Sanctioned	Filled
	Teaching	538	538
	Non-Teaching	260	260
	Technical	161	161
	Total	959	959

4.	a.	Number of regular and permanent teachers		
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Professors	M	74	F	4
Readers/Asst. Professors	M	110	F	14
Lectures/Asst. Professors	M	212	F	124
	Total	396		142

b.	Number of temporary teachers			
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Lectures –Full -time	M	-	F	-
Lectures –Part -time	M	-	F	-
Lectures (Management appointees) – Full time	M	-	F	-
Lectures (Management appointees) – Part time	M	-	F	-
Any other (specify)	M	-	F	-
Total	M	-	F	-
Grand Total				

c.	Number of teachers			
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Same State	525
Other State	13
Other Country	---
Total	538

5	a.	Number of qualified permanent teachers and their percentage of the total faculty strength	100%
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b.	Number of faculty development programs availed by teachers during the last five years
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Type of Faculty Development Program	2007 2008	2008 2009	2009 2010	2010 2011	2011 2012	Total
Refresher	1	3	8	11	6	29
Orientation	7	10	12	38	71	138
seminars and workshops	45	66	83	86	83	363
Total	53	79	103	135	160	530

c.	Number of faculty development programs organized by the University during the last five years	19
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Type of Faculty Development Program	2007 2008	2008 2009	2009 2010	2010 2011	2011 2012	Total
All programs	1	1	2	7	8	19
Total	1	1	2	7	8	19

d.	Number of academic development programs organized by the University during the last five years
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Type of Faculty Development Program	2007 2008	2008 2009	2009 2010	2010 2011	2011 2012	Total
Seminars/workshops/symposia on Curricular	16	25	42	35	26	144
Development, Teaching-learning, Assessment and others	8	7	10	11	15	51
Research development program	2	2	3	2	6	15
Invited or endowment Lectures	25	17	16	28	34	120
Total	51	51	71	76	81	330

6.	Does the University have the tutor-ward system?	YES	√	NO	
	If yes, how many students are under the care of one teacher?	1:20			

7.	Remedial programs offered	Yes	√	No		Number	20
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8.	Bridge courses offered	Yes	√	No		Number	13
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9.	Is there a mechanism for:						
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Self appraisal of faculty	Yes	√	No	
Student assessment of faculty performance	Yes	√	No	
Assessment of faculty performance by experts	Yes	√	No	

10.	Do the faculty members perform additional administrative work?	Yes	√	No	
	If yes the average number of hours spent per week by the faculty	12			

11.	Any other (specify)
	<p>The university is adapting hybrid system of grading which is unique and gives high degree of segregation and classification of the students based on their performance.</p> <p>The university is implementing comprehensive online integrated examination system that is highly transparent.</p> <p>The university is developing a high quality question paper bank so that question paper management becomes simple. As many as 3000 question papers are being captured and securely being stored in examinations database.</p>

Criterion III: Research, Consultancy and Extension

1.	Number and Percentage of faculty members actively involved in research guidance and projects	Number	116	%	21.56
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2.	Research Collaborations
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National If yes, how many?	Yes	√	No	
	05			
Overseas If yes, how many?	Yes	√	No	
	15			
Consultancy earnings in Rs.	Yes	√	No	
	2010-11		2011-2012	
	6,68,453		25,50,400	

3.	Total Amount and percentage of the annual budget allocated for promotion of research (Average of last five years)	Amount	66,85,985	%	1.99
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4.	a.	Does the faculty have research projects? If yes, how many?	Yes	√	No	
			31			

b.	Provide the following details about the ongoing research projects (Amount in Lacks)
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Major Projects	Yes	√	No		Number	20	Agency	DST	Amount In Lacks	411.87
	Yes	√	No		Number	1	Agency	ISRO	Amount In lacks	13.44
	Yes	√	No		Number	1	Agency	DBT	Amount In lacks	20.92
	Yes	√	No		Number	1	Agency	DLRL	Amount In lacks	8.25
	Yes	√	No		Number	5	Agency	UGC	Amount In lacks	44.78
Minor Projects	Yes	√	No		Number	1	Agency	AICTE	Amount In Lacks	5.00
University/ Projects	Yes		No		Number		Amount		Amount In Lacks	
Industry sponsored	Yes	√	No		Number	2	Industry		Amount In Lacks	
Number of Student Research projects	Yes	√	No		Number	10	100.00(Allocated Budget)			

5.	Research publications(Last 5 Years)
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International journals	Yes	√	No	-	Number	657
National journals- refereed papers	Yes	√	No	-	Number	143
University journal	Yes	√	No	-	Number	01
Books	Yes	√	No	-	Number	27
Abstracts	Yes	√	No	-	Number	08
International Conferences	Yes	√	No	-	Number	176
National Conferences	Yes	√	No	-	Number	172
Thesis	Yes	√	No	-	Number	21
Total					Number	1205
Mean Impact factor of the best research journals in which publication were made (last 5 years) 0.4						

6.	Research Awards, recognition, patents etc. if yes, specify? (during the last five years)	Yes	√	No	
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Patents	8
Best Papers	5
Conference Chairs	5
Conference Co Chairs	5
Research awards	101
Total	124

7.	Presentation of high-level research papers: If yes, number of papers presented at	Yes	√	No	
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National seminars	176
International seminars	172
Total	348

8.	Number of extracurricular/co-curricular activities organized in collaboration with other agencies / NGOs (such as Rotary / Lion's etc.) on Campus	24
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9.	Extension Centers (If any)	Yes	√	No	Number	1
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10.	Number of regular extension programs organized by NSS, NCC etc
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Number of NCC Cadets/units	M	-	F	-
Number of NSS Volunteers/units	M	60	F	40

11.	Number of MoUs
-----	----------------

Internship with Industry	19
With industry	13
With National Organizations	5
With Foreign Universities	15
With Extension related Organizations	2
Total	54

12	<p>Any other data regarding Research, Consultancy and extension (specify)</p> <p>The university has implemented group based research. 43 Research groups have been formed to conduct research in 43 different areas. The research groups works along with course coordinators to assure high quality delivery of the courses.</p> <p>The university was successful in bringing the research in to the class rooms through introduction of research based courses and designing the assignments around the research problems.</p> <p>The university has established 21 research labs and 4 excellence centers which cater for undertaking research projects of national priority.</p>
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Criterion IV: Infrastructure and Learning Resources

1.	a.	Campus area in acres	43.56
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b.	Built-in area in Square meters (1 Sq Feet = 0.09290304 Sq Meter)	67,449
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2.	Working hours of the Library
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Hours On working days	14
Hours On holidays	07
Hours During examinations	16

3.	Open access	Yes	√	No
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4.	Total Collection
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a.	Books volumes	1,01,230
b.	Books	26,689
c.	Reference books	20,249
d.	Book titles	26,689
e.	Magazines	81

f.	Current Journals
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Indian Journals	101
Foreign Journals	68
Total	169

g.	Peer reviewed Journals	1
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h.	Back Volumes of Journals	2808
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i.	E-Resources
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CDs/DVDs	5503
Databases	02
e-journals	6000
Audio-Visual resources (Ekalavya channel)	1
e-books	1200
Digital Libraries	9
Total	12,715

j.	Special Collections
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UNO Repository Centre	-
World Bank repository	-
Material Acquired under special schemes (IEEE, ACM, NBHM, DST etc.)	-
Competitive Examinations	Yes
Book Bank	Yes
Braille Materials	No
Manuscripts	No

5.	Number of books/journals/periodicals added during the last two years and their cost
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Library Resources	The Year before last		The year before	
	Number	Total cost in Rs	Number	Total cost Rs
Text books	5378	14,08,214	7906	22,46,610
Reference books	2354	4,37,146	1653	5,44,610
Journals/ Periodicals	284	11,15,669	250	18,18,777
Total	8016	29,61,029	9809	46,09,997

6.	Furnish the following details:
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Total carpet area of the Central Library (in Sq. Ft)	16,146
Extra Capacity being created (in Sq. Ft)	1,00,000
Seating capacity of the Central Library	1,000
Extra Seating capacity being created	6,000

Separate reading room facility for

Students	Yes	√	No	
Staff	Yes	√	No	

Number of departmental Libraries	13
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7.	Is the Central Library automated
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Yes	√
Partially Yes	-
No	-

If yes, Name the application software used	OPAC
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8.	Percentage of annual allocation of funds to the library out of the total budget (average of last 2years	5.32
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9.	Services/facilities in the library
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Circulation of books/journals	√
Display of current events/information	√
Bibliographic compilation	√
Reference Reprography	√
Computer and Printing	√
Internet browsing	√
Digitalization of resources	√
Inter-library loan	√
Uninterrupted power supply/back up Sufficient DELNET	√
User orientation/information literacy	√
Any other (specify)	WEB OPAC

10.	Are students allowed to retain books for examinations?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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11.	Furnish details for the following
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Average number of books issued /returned per day	753/624
Average number of faculty visiting the library/day	24
Average number of students visiting the library/day	1326
Average number of users who visited / consulted per month	10
Average number of log-ins into the e-sources per month	3,000
Ratio of library books to number of students enrolled	1 : 12
Total number of the days, the library kept open	345
Number of Computer terminals	70
Number of Departments with computer facilities	13
Budget allotment for computers during the last academic year in Rs.	1,50,00,000
Amount spent on maintenance and upgrading of computer Facilities during the last academic year	3,07,66,000

Is there a Workshop / Instrumentation Centre?	Yes	<input checked="" type="checkbox"/>	No	-	Year of Establishment	1981
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12.	Institutional networking through					
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Optical Fiber connectivity	Yes	√	No	-
Wi-Fi connectivity	Yes	√	No	-
Bio Metrics	Yes	√	No	-
RFID	Yes	√	No	-

13.	Is there a Health Centre?	Yes	√	No		Year of Establishment.	2006
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14.	Is there Residential accommodation provided?						
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a)	Faculty?	Yes	√	No	
b)	Non- teaching staff?	Yes	√	No	

15.	Are there Hostels for students? If yes, Number of students residing in hostels	Yes	√	No		Year of Establishment	1983
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Male	Yes	√	No		Number	1334
Female	Yes	√	No		Number	704

16.	Is there a provision for						
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(a)	Sports fields	Yes	√	No		Number	33
(b)	Gymnasium	Yes	√	No		Number	2
(c)	Women's rest rooms	Yes	√	No		Number	06
(d)	Transport	Yes	√	No		Number	70
(e)	Canteen/Cafeteria	Yes	√	No		Year of Establishment	1981
(f)	Students' centre	Yes	√	No		Year of Establishment	1981
(g)	Media centre	Yes		No		Year of Introduction	2000
(h)	Telephone facility Local / STD)	Yes	√	No		Year of Introduction	1982
(i)	Generator /Electricity Backup	Yes	√	No		Year of Introduction	1985

17.	Is there provision for Equipment / Teaching aids:					
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LCD projectors	Yes	√	No		Number	137
OHP	Yes	√	No		Number	59
Slide projectors	Yes	√	No		Number	1
TV/VCP/Cable connection	Yes	√	No		Number	14
DVD players	Yes	√	No		Number	06
Computers	Yes	√	No		Number	137
Audio Video Systems	Yes	√	No		Number	137
Total						491

18.	Does the institution make use of Edusat / Vsat facility	Yes		No	√
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19.	Is there provision for Indoor sports facilities	Yes	√	No		Year of Establishment.	2004
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20.	<p>Any other (specify)</p> <p>The university is developing the state of the Library of 1, 00, 000 Square feet which is being integrated with many of the Libraries in the world. The Library is being equipped with many of the Micro Imaging facilities. This library is being built in addition to the existing library which meets all the norms.</p> <p>The university has provided infrastructure that provides for high quality educational ambience. Every aspect of the infrastructural planning and maintenance to make the infrastructure in top working condition has been considered.</p>
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Criterion V: Students Support and Progression

1.	a.	Student strength (Provide information on average Student Strength of the last five years in the following format)	3012
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Student Enrolment	UG			PG			M. Phil.			Ph. D			Diploma/Certificate			Self-Funded
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	
Number of Students from The same state Where the Institution is Located	1041	415	1456	189	84	273	-	-	-	45	26	71	820	304	1124	All the Programs are self Funded
Number of Students from Other states	10	04	14	01	00	01	-	-	-	2	1	3	7	2	9	
Number of NRI Students	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Overseas students	29	03	32	01	00	01	-	-	-	-	-	-	25	3	28	

Legend: M-Men, F- Female, T-Total

2.	Dropout rate in % UG and PG for the last two batches? (2009-10, 2010-11)	UG	0.001	PG	0.00
----	--	----	-------	----	------

3	Student free ships and scholarships: (last Year data) 2010-11	Number	Amount in Rs
---	--	--------	--------------

Endowments	36	28,86,400
Free ships	775	2,42,42,550
Scholarship (Government)	443	1,11,25,300
Scholarship (Institution)	-	-
Number of loan facilities	-	-
Any other students financial Support schemes (specify)	-	-
	1254	4,82,54,250

4	Does the institution obtain feedback from students on their Campus experience?	Yes	√	No	
<p>Students are the members of various committees, which include Transport committee, Hostel Committee, Library committee, Sports committee, Canteen committee etc. where the students can give their ideas for improvement of the support services. A separate online feedback is also taken from the students about the extent and quality of services extended by the university. The Feedback is analyzed by DEAN(PND) and all the corrective active are taken by following related procedures</p>					

5.	Major Cultural Events (Last years' data)
----	--

Level of Event	Organized by the University			Participated		
	Yes	No	Number	Yes	No	Number
Inter-collegiate	√	-	1	√	-	4
Inter-university	-	-	-	√	-	2
National	√	-	1	√	-	6
Total Events	1			12		

6.	Examination Results (during the past five years)
----	--

Performance	UG					PG					M. Phil.				
-------------	----	--	--	--	--	----	--	--	--	--	----------	--	--	--	--

Year	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
% of passes	83.29	86.67	79.23	92.78	91.00	90.80	85.48	91.62	92.06	90.12	-	-	-	-	-
Number of first classes	173	224	186	357	379	15	47	55	89	102	-	-	-	-	-
Number of distinctions	408	499	553	461	472	74	102	102	68	171	-	-	-	-	-

7.	Number of students who have passed the following during the last five years
----	---

Type of Competitive Examination	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	Total
NET	0	0	0	0	2	2
SLET	0	0	0	0	0	0
CAT / GMAT	7	4	2	10	20	43
TOEFL	98	75	66	70	86	395
GRE	61	96	82	82	107	428
GATE	23	18	24	39	94	198
IAS	0	0	0	0	0	0
Defense Entrance	0	0	0	0	0	0
central/state services	0	0	0	0	02	02
Total	189	193	174	201	311	1068

8.	Student Counseling Centre	Yes	√	No		Year of Establishment	1981
9.	Grievance Redressal Call	Yes	√	No		Year of Establishment	1983
10.	Alumni Association	Yes	√	No		Year of Establishment	1985
11.	Parent-Teacher Association	Yes	√	No		Year of Establishment	1983

12.	<p>Any other data on student support and Progression (specify)</p> <p>The university has undertaken series of the measures to provide high quality support services that include specialized training to facilitate the students to participate in the competitive examinations. The training imparted by the faculty of department of communication and soft skills and the effort being put by Industry relations and placement department is helping all the students to be placed thus achieving 100% placement for the last 5 years.</p>
-----	--

Criterion VI: Governance and Leadership

1.	Director of Board of University and College development / College development council. Have the following positions of the University filled as per norms)? The university has filled all the officers as defined in the UGC rules and regulations. The details are given as below:
----	--

Vice Chancellor	Dr G. L Data
Register	Dr. N. Rangaiah
Controller of examinations	Dr. K. J. Babu
Finance Officer	Mr. A Krishna Rao

2.	a.	Non-Teaching Staff	Permanent	M	48	F	44	92
			Temporary	M	135	F	33	168
			Total		183		77	260
	b.	Technical Assistants	Permanent	M	31	F	42	73
			Temporary	M	78	F	10	88
			Total		109		52	161
	c.	Ratio Teaching – non-teaching staff:	1 : 0.78					

3.	Number of Management Appointees
----	---------------------------------

Non-Teaching	M	-	F	--
Technical Assistants	M	-	F	-

4.	Number of non-teaching staff development programs conducted in the last year	05
----	--	-----------

5.	Financial resources of the university (approximate Amounts) Last Year data 2010-11
----	--

Grant-in aid	39,57,410
Fees (All Programs)	62,79,14,614
Donation	0
Self-funded courses(Certificate Courses)	1,06,14,344
Any other (Specify)	0
Total	64,24,86,368

6.	Finance (last two years data) Based on Income from tuition fees
----	---

Expenditure	Year before last (2009-2010)	Last year (2010-2011)
% spent on the salary of teaching faculty	33	30
% spent on the salary of on non-teaching Employees including contractual staff	13	11
% spent on books and journals	1	1
% spent on Building development	19	28
% spent on maintenance, electricity , water, sports, examinations, hostels, students amenities etc.	18	14
% spent on academic activities of departments, laboratories , green house, animals house, etc.	4	5
% spent on equipment, research, teaching, aids, seminars, contingency tec.	12	11
Total	100	100

7.	Dates of meeting of Academic and Administrative Bodies:
----	---

Type of Meeting	Dates of meetings conducted
BOM (Board of Management)	23 rd Jan 2012
	25 th Nov 2011
	6 th Aug 2011
	9 th April 2011
	25 th Oct 2010
	3 rd Jul 2010
	24 th March 2010
	30 August 2009

Type of Meeting	Dates of meetings conducted
Academic Council	21 st Nov 2011
	13 th Sep 2011
	3 rd June 2011
	23 rd Nov 2010
	24 th June 2010
	10 th March 2010
	29 th August 2009
Planning and Monitoring Board	13 th June 2011
	28 th August 2009
Finance Committee	24 th Nov 2011
	8 th April 2011
	8 th Nov 2010
	13 th March 2010
Research Board	29 th August 2009
	7 th Sep 2011
	18 th Jul 2011

8.	Welfare Schemes for the academic community (past 5 years)	Amount in Rs.
----	---	---------------

Loan facility	Yes	√	No	Amount	1,20,900
Medical /Group Insurance	Yes	√	No	Amount	2,78,978
Staff Training, Staff Incentives, Staff welfare, EPF	Yes	√	No	Amount	1,84.15,645

9.	Is there ICT –support for the following:
----	--

Office	Yes	√	No	-
Student Admission	Yes	√	No	-
Student Records	Yes	√	No	-
Career Counseling	Yes	√	No	-
Student Placements	Yes	√	No	-
Aptitude Testing	Yes	√	No	-
Examinations	Yes	√	No	-

10.	Any other data on Governance and Leadership (specify)
<p>The university is built around well proved organization structure that incorporates accountability, decentralization of administration, in-built planning and monitoring system and coordination system. The university has positioned all the authorities and officers as defined in the regulations of UGC.</p> <p>The university has also developed perspective plan that provides all the plan elements to realize all short term and long term goals and objectives.</p> <p>The university has also developed a quality system that is internalized into all the educational processes thus assuring high quality services to the students.</p>	

Criterion VII: Innovative Practices

1.	Has the University established Internal Quality Assurance Mechanisms?	YES	√	NO	
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2.	Do students participate in the quality Enhancement of the Institution?	YES	√	NO	
The students of the university contribute to the quality education at the university through feedbacks, participation in the departmental committees, develop documentation as per standards and use the norms and metrics for evaluation of their own performance.					

3.	What is the average percentage of the following students in the institution?	Number	%
----	--	--------	---

SC	285	3.68
ST	61	0.79
OBC	1547	20.24
Women	2257	29.53
Differently -abled	9	0.12
Rural	1266	16.57
Tribal	0	0.00
Others	2217	29.07
Total	7642	100.00

4.	What is the Present average Percentage of the following category of staff?
----	--

Srl. No.	Categories	Teaching staff	%	Non-teaching staff	%
a	SC	65	12.08	52	12.35
b	ST	07	1.30	0	0.00
c	OBC	94	17.47	121	28.74
d	Women	142	26.40	129	30.64
e	Differently-abled	5	0.93	02	0.48
f	Rural	88	16.34	187	44.42
g	Tribal	0	0	0	0.00
h	others	0	0	0	0.00

5.	What is the percentage incremental academic growth in terms of aggregate marks of the following category of students for the last two batches of students?
----	--

Serial Number	Categories	At Admission (%)		On completion of the course (%)	
		Batch-I	Batch-II	Batch I	Batch II
a.	SC	69.11	80.20	73.11	84.09
b.	ST	70.62	77.66	73.56	80.02
c.	OBC	70.17	83.40	75.79	88.38
d.	Women	72.12	86.72	78.24	92.07
e.	Differently-abled	82.00	79.83	84.15	85.74
f.	Rural	-	-	-	-
g.	Tribal	-	-	-	-

6.	Is there a mechanism for obtaining stakeholder perception about the institution?	Yes	√	No	
<p>The university takes feedback from all the students, employers, Academic Peers, Alumni, Parents, and Industrial experts regarding the quality of the curriculum, Feedback from the students is also taken in relation to support services and performance of the faculty. Feedback from the employers is taken specially in respect of the performance of the students in the Industry while they have undergone the industrial training, internship and during regular employment after completion of the placement activity</p>					

7.	Has the institution kept a record of students shouldering social responsibilities in addition to their academic activities?	Yes	√	No	
<p>The University has developed mechanisms to make the students shoulder social responsibilities in addition to their academic responsibility. The students are made as members of various types of cells that are established under the extension center. The students are trained to make them capable of delivering various types of activities' for the development of neighboring communities. The students and the faculty of the university have been conducting various kinds of programs in the neighborhood and the change in the communities due the programs conducted is quite visible.</p>					

8.	Does the institution have a mechanism for analyzing student feedback on institutional performance, to arrive at Student Satisfaction Index? (Refer to the sample questionnaires annexed)	Yes	√	No	
<p>The institution has developed educational benchmarks which match the International standards and the students are provided with the comparison of the performance of the students in relation to the bench marks. The students are quite satisfied when their performance is comparable to the international bench marks. The institution has developed methods that help computing student performance Index. The feedback of the students is taken on faculty performance and on support services provided by the university. Corrective actions are taken wherever necessary thus making the students satisfied,</p>					

K L University



NAAC Accreditation - 2012

Part I – Institutional Data

Section-C (Departmental Profiles)

C. Profiles of Academic Departments

1.0 Department of Bio Technology – Profile

Srl. No.	Profile Parameter	Parameter Value																				
1.	Name of the Department	Biotechnology																				
2.	Year of Establishment	2002																				
3.	Courses / Programs and subject combinations offered	<table border="1"> <thead> <tr> <th>Serial Num</th> <th>Level of the Program</th> <th>Name of the Program</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UG</td> <td>B.Tech</td> </tr> <tr> <td>2</td> <td>PG</td> <td>M.Tech</td> </tr> <tr> <td>3</td> <td>PG</td> <td>M.Sc</td> </tr> <tr> <td>4</td> <td>Doctoral</td> <td>PhD</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	1	UG	B.Tech	2	PG	M.Tech	3	PG	M.Sc	4	Doctoral	PhD					
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Sanctioned	Filled																					
15	15																					
5.	Number of Administrative Staff	01																				
6.	Number of Technical Staff	08																				
7.	Number of Students (Men / Women) Give details course-wise	<table border="1"> <thead> <tr> <th>Program</th> <th>Men</th> <th>Women</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>72</td> <td>87</td> <td>159</td> </tr> <tr> <td>M.Tech</td> <td>10</td> <td>18</td> <td>28</td> </tr> <tr> <td>PhD</td> <td>11</td> <td>8</td> <td>19</td> </tr> <tr> <td>Total</td> <td>93</td> <td>113</td> <td>206</td> </tr> </tbody> </table>	Program	Men	Women	Total	B.Tech	72	87	159	M.Tech	10	18	28	PhD	11	8	19	Total	93	113	206
Program	Men	Women	Total																			
B.Tech	72	87	159																			
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8.	Ratio of Teacher to Students	<table border="1"> <thead> <tr> <th>Students</th> <th>Teachers</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td>187</td> <td>15</td> <td>1:12.47</td> </tr> </tbody> </table>	Students	Teachers	Ratio(Teacher: Students)	187	15	1:12.47														
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Eligible Teachers to Guide	Scholars	Ratio(Teacher: Scholars)																				
10	19	1:1.9																				
10.	Number of research scholars who have obtained their master's Degree from other institutions	19																				

Srl.	Profile Parameter	Parameter Value
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No.																		
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	03																
12.	Latest revision of the curriculum (Year)	<table border="1"> <thead> <tr> <th>Name of the Program</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>2011</td> </tr> <tr> <td>M.Tech</td> <td>2011</td> </tr> <tr> <td>M. Sc</td> <td>2011</td> </tr> </tbody> </table>	Name of the Program	Year	B.Tech	2011	M.Tech	2011	M. Sc	2011								
Name of the Program	Year																	
B.Tech	2011																	
M.Tech	2011																	
M. Sc	2011																	
13.	Number of students passed in NET/SLET/GATE/GRE/TOEFL etc. (Last 5 Yrs)	125																
14.	Success Rate of students	<table border="1"> <thead> <tr> <th>Name of the Program</th> <th>Success Rate in %</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>98%</td> </tr> </tbody> </table>	Name of the Program	Success Rate in %	B.Tech	98%												
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15.	Demand Ratio (Number .of seats : No. of applications – 2011-2012)	<table border="1"> <thead> <tr> <th>Program</th> <th>Number of seats</th> <th>Number of Applications</th> <th>Seats: Applications</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>80</td> <td>240</td> <td>1:3</td> </tr> <tr> <td>M.Tech</td> <td></td> <td></td> <td></td> </tr> <tr> <td>M.Sc</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Program	Number of seats	Number of Applications	Seats: Applications	B.Tech	80	240	1:3	M.Tech				M.Sc			
Program	Number of seats	Number of Applications	Seats: Applications															
B.Tech	80	240	1:3															
M.Tech																		
M.Sc																		
16.	Awards and recognition received by faculty (Last 5 Yrs)	11																
17.	Number of Faculty who have Attended Natl./ International Seminars	<table border="1"> <thead> <tr> <th>National</th> <th>International</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">14</td> <td style="text-align: center;">4</td> <td style="text-align: center;">18</td> </tr> </tbody> </table>	National	International	Total	14	4	18										
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18.	Number of National / International seminars organized (Last 5 Years)	<table border="1"> <thead> <tr> <th>National Seminars</th> <th>International Seminars</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">0</td> <td style="text-align: center;">05</td> </tr> </tbody> </table>	National Seminars	International Seminars	Total	5	0	05										
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Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in Rs
		02	50,000
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
		8	139.22
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
		5	5
22.	No. of inventions and patents	Number of Inventions	Number of Patents
		5	0.5
23.	No. of PhD thesis guided in the last 5 years	0	
24.	Publications by Faculty (Last 5 Years)	93	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
			1.41
26.	Number of books in Department library, if any	327	
27.	Number of Journals / Periodicals in the department library	15	
28.	No. of Computers	71	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	25.66	

2.0 Department of Computer Science and Engineering – Profile

Srl. No.	Profile Parameter	Parameter Value																				
1.	Name of the Department	Computer Science and Engineering																				
2.	Year of Establishment	1983																				
3.	Courses / Programs and subject combinations offered	<table border="1"> <thead> <tr> <th>Serial Num</th> <th>Level of the Program</th> <th>Name of the Program</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UG</td> <td>B.Tech</td> </tr> <tr> <td>2</td> <td>PG</td> <td>M.Tech(CSE)</td> </tr> <tr> <td>3</td> <td>PG</td> <td>M.Tech(CNS)</td> </tr> <tr> <td>4</td> <td>Doctoral</td> <td>PhD</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	1	UG	B.Tech	2	PG	M.Tech(CSE)	3	PG	M.Tech(CNS)	4	Doctoral	PhD					
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5.	Number of Administrative Staff	6																				
6.	Number of Technical Staff	20																				
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12.	Latest revision of the curriculum (Year)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Program</th> <th style="width: 50%;">Year of Revision</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>2010-2011</td> </tr> <tr> <td>M.Tech(CSE)</td> <td>2010-2011</td> </tr> <tr> <td>M.Tech(CNS)</td> <td>2010- 2011</td> </tr> </tbody> </table>				Program	Year of Revision	B.Tech	2010-2011	M.Tech(CSE)	2010-2011	M.Tech(CNS)	2010- 2011
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Program	Number of seats	Number of Applications	Seats: Applications										
All Programs	429	4219	9.83										
16.	Awards and recognition received by faculty (Last 5 Yrs)	21											
17.	Number of Faculty who have Attended Natl./ International Seminars	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">National</th> <th style="width: 33%;">International</th> <th style="width: 34%;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">42</td> <td style="text-align: center;">42</td> <td style="text-align: center;">84</td> </tr> </tbody> </table>				National	International	Total	42	42	84		
National	International	Total											
42	42	84											
18.	Number of National / International seminars organized (Last 5 Years)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">National Seminars</th> <th style="width: 33%;">International Seminars</th> <th style="width: 34%;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">16</td> <td style="text-align: center;">01</td> <td style="text-align: center;">17</td> </tr> </tbody> </table>				National Seminars	International Seminars	Total	16	01	17		
National Seminars	International Seminars	Total											
16	01	17											

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy 02	Revenue generated through Consultancy works in Rs 0
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects 1	Total outlay in Lacks 21.50
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed 02	Total outlay in Lacks 38.50
22.	No. of inventions and patents	Number of Inventions 10	Number of Patents 0
23.	No. of PhD thesis guided in the last 5 years	2	
24.	Publications by Faculty (Last 5 Years)	121	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor 1.0
26.	Number of books in Department library, if any	1219	
27.	Number of Journals / Periodicals in the department library	18	
28.	No. of Computers	543	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	127.64	

3.0 Department of Civil Engineering – Profile

Srl. No.	Profile Parameter	Parameter Value																				
1.	Name of the Department	Civil Engineering																				
2.	Year of Establishment	1980																				
3.	Courses / Programs and subject combinations offered	<table border="1"> <thead> <tr> <th>Serial Num</th> <th>Level of the Program</th> <th>Name of the Program</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UG</td> <td>B.Tech</td> </tr> <tr> <td>2</td> <td>PG</td> <td>M.Tech</td> </tr> <tr> <td>3</td> <td>Doctoral</td> <td>Ph.D</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	1	UG	B.Tech	2	PG	M.Tech	3	Doctoral	Ph.D								
Serial Num	Level of the Program	Name of the Program																				
1	UG	B.Tech																				
2	PG	M.Tech																				
3	Doctoral	Ph.D																				
4.	Number of Teaching posts sanctioned and Filled	<table border="1"> <thead> <tr> <th>Sanctioned</th> <th>Filled</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>24</td> </tr> </tbody> </table>	Sanctioned	Filled	24	24																
Sanctioned	Filled																					
24	24																					
5.	Number of Administrative Staff	02																				
6.	Number of Technical Staff	11																				
7.	Number of Students (Men / Women) Give details course-wise	<table border="1"> <thead> <tr> <th>Program</th> <th>Men</th> <th>Women</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>283</td> <td>60</td> <td>343</td> </tr> <tr> <td>M.Tech</td> <td>5</td> <td>0</td> <td>5</td> </tr> <tr> <td>Ph.D</td> <td>2</td> <td>0</td> <td>2</td> </tr> <tr> <td>Total</td> <td>290</td> <td>60</td> <td>350</td> </tr> </tbody> </table>	Program	Men	Women	Total	B.Tech	283	60	343	M.Tech	5	0	5	Ph.D	2	0	2	Total	290	60	350
Program	Men	Women	Total																			
B.Tech	283	60	343																			
M.Tech	5	0	5																			
Ph.D	2	0	2																			
Total	290	60	350																			
8.	Ratio of Teacher to Students	<table border="1"> <thead> <tr> <th>Students</th> <th>Teachers</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td>348</td> <td>24</td> <td>1:14.5</td> </tr> </tbody> </table>	Students	Teachers	Ratio(Teacher: Students)	348	24	1:14.5														
Students	Teachers	Ratio(Teacher: Students)																				
348	24	1:14.5																				
9.	Ratio of Teachers to Research scholars	<table border="1"> <thead> <tr> <th>Eligible Teachers to Guide</th> <th>Scholars</th> <th>Ratio(Teacher: Scholars)</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>2</td> <td>1:0.29</td> </tr> </tbody> </table>	Eligible Teachers to Guide	Scholars	Ratio(Teacher: Scholars)	7	2	1:0.29														
Eligible Teachers to Guide	Scholars	Ratio(Teacher: Scholars)																				
7	2	1:0.29																				
10.	Number of research scholars who have obtained their master's Degree from other institutions	2																				

Srl. No.	Profile Parameter	Parameter Value															
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	1															
12.	Latest revision of the curriculum (Year)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Program</th> <th style="width: 50%;">Year of Revision</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>2010-2011</td> </tr> <tr> <td>M.Tech</td> <td>2010-2011</td> </tr> </tbody> </table>				Program	Year of Revision	B.Tech	2010-2011	M.Tech	2010-2011						
Program	Year of Revision																
B.Tech	2010-2011																
M.Tech	2010-2011																
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEF L etc. (Last 5 Yrs)	34															
14.	Success Rate of students(2010-2011)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of the Program</th> <th style="width: 50%;">Success Rate in %</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>97.33</td> </tr> </tbody> </table>				Name of the Program	Success Rate in %	B.Tech	97.33								
Name of the Program	Success Rate in %																
B.Tech	97.33																
15.	Demand Ratio (Number .of seats : No. of applications 2011-2012)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Program</th> <th style="width: 25%;">Number of seats</th> <th style="width: 25%;">Number of Applications</th> <th style="width: 25%;">Seats: Applications</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>180</td> <td>191</td> <td>1:1.06</td> </tr> <tr> <td>M.Tech</td> <td>40</td> <td>160</td> <td>1:4</td> </tr> </tbody> </table>				Program	Number of seats	Number of Applications	Seats: Applications	B.Tech	180	191	1:1.06	M.Tech	40	160	1:4
Program	Number of seats	Number of Applications	Seats: Applications														
B.Tech	180	191	1:1.06														
M.Tech	40	160	1:4														
16.	Awards and recognition received by faculty (Last 5 Yrs)	12															
17.	Number of Faculty who have Attended Natl./ International Seminars	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">National</th> <th style="width: 33%;">International</th> <th style="width: 33%;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">47</td> <td style="text-align: center;">4</td> <td style="text-align: center;">51</td> </tr> </tbody> </table>				National	International	Total	47	4	51						
National	International	Total															
47	4	51															
18.	Number of National / International seminars organized (Last 5 Years)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">National Seminars</th> <th style="width: 33%;">International Seminars</th> <th style="width: 33%;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">1</td> <td style="text-align: center;">6</td> </tr> </tbody> </table>				National Seminars	International Seminars	Total	5	1	6						
National Seminars	International Seminars	Total															
5	1	6															

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in Rs Lackhs
		15	56.40
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
		3	15
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
		2	8.00
22.	No. of inventions and patents	Number of Inventions	Number of Patents
		5	0
23.	No. of PhD thesis guided in the last 5 years	0	
24.	Publications by Faculty (Last 5 Years)	55	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
			1.20
26.	Number of books in Department library, if any	1235	
27.	Number of Journals / Periodicals in the department library	9	
28.	No. of Computers	63	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	48.89	

4.0 Department of Electronics and Computers Engineering – Profile

Srl. No.	Profile Parameter	Parameter Value																				
1.	Name of the Department	Electronics and Computers Engineering																				
2.	Year of Establishment	1999																				
3.	Courses / Programs and subject combinations offered	<table border="1"> <thead> <tr> <th>Serial Num</th> <th>Level of the Program</th> <th>Name of the Program</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UG</td> <td>B.Tech</td> </tr> <tr> <td>2</td> <td>PG</td> <td>M.Tech</td> </tr> <tr> <td>3</td> <td>Doctoral</td> <td>Ph.D</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	1	UG	B.Tech	2	PG	M.Tech	3	Doctoral	Ph.D								
Serial Num	Level of the Program	Name of the Program																				
1	UG	B.Tech																				
2	PG	M.Tech																				
3	Doctoral	Ph.D																				
4.	Number of Teaching posts sanctioned and Filled	<table border="1"> <thead> <tr> <th>Sanctioned</th> <th>Filled</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>35</td> </tr> </tbody> </table>	Sanctioned	Filled	35	35																
Sanctioned	Filled																					
35	35																					
5.	Number of Administrative Staff	2																				
6.	Number of Technical Staff	14																				
7.	Number of Students (Men / Women) Give details course-wise	<table border="1"> <thead> <tr> <th>Program</th> <th>Men</th> <th>Women</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>235</td> <td>178</td> <td>413</td> </tr> <tr> <td>M.Tech</td> <td>48</td> <td>15</td> <td>63</td> </tr> <tr> <td>Ph.D</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Total</td> <td>283</td> <td>193</td> <td>476</td> </tr> </tbody> </table>	Program	Men	Women	Total	B.Tech	235	178	413	M.Tech	48	15	63	Ph.D	0	0	0	Total	283	193	476
Program	Men	Women	Total																			
B.Tech	235	178	413																			
M.Tech	48	15	63																			
Ph.D	0	0	0																			
Total	283	193	476																			
8.	Ratio of Teacher to Students	<table border="1"> <thead> <tr> <th>Teacher</th> <th>Students</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>476</td> <td>1:13.60</td> </tr> </tbody> </table>	Teacher	Students	Ratio(Teacher: Students)	35	476	1:13.60														
Teacher	Students	Ratio(Teacher: Students)																				
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9.	Ratio of Teachers to Research scholars	<table border="1"> <thead> <tr> <th>Eligible Teachers to Guide</th> <th>Scholars</th> <th>Ratio(Teacher: Scholars)</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>6</td> <td>1:2</td> </tr> </tbody> </table>	Eligible Teachers to Guide	Scholars	Ratio(Teacher: Scholars)	3	6	1:2														
Eligible Teachers to Guide	Scholars	Ratio(Teacher: Scholars)																				
3	6	1:2																				
10.	Number of research scholars who have obtained their master's Degree from other institutions	4																				

Srl. No.	Profile Parameter	Parameter Value															
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	2															
12.	Latest revision of the curriculum (Year)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Program</th> <th style="width: 50%;">Year of Revision</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>2010-2011</td> </tr> <tr> <td>M.Tech</td> <td>2010-2011</td> </tr> </tbody> </table>				Program	Year of Revision	B.Tech	2010-2011	M.Tech	2010-2011						
Program	Year of Revision																
B.Tech	2010-2011																
M.Tech	2010-2011																
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEFL etc. (Last 5 Yrs)	110															
14.	Success Rate of students(2010-2011)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of the Program</th> <th style="width: 50%;">Success Rate in %</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>95.00</td> </tr> </tbody> </table>				Name of the Program	Success Rate in %	B.Tech	95.00								
Name of the Program	Success Rate in %																
B.Tech	95.00																
15.	Demand Ratio (Number .of seats : No. of applications 2011-2012)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Program</th> <th style="width: 15%;">Number of seats</th> <th style="width: 25%;">Number of Applications</th> <th style="width: 45%;">Seats: Applications</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>180</td> <td>1880</td> <td>1:10</td> </tr> <tr> <td>M.Tech</td> <td>40</td> <td>80</td> <td>1:2</td> </tr> </tbody> </table>				Program	Number of seats	Number of Applications	Seats: Applications	B.Tech	180	1880	1:10	M.Tech	40	80	1:2
Program	Number of seats	Number of Applications	Seats: Applications														
B.Tech	180	1880	1:10														
M.Tech	40	80	1:2														
16.	Awards and recognition received by faculty (Last 5 Yrs)	5															
17.	Number of Faculty who have Attended Natl./ International Seminars	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">National</th> <th style="width: 33%;">International</th> <th style="width: 34%;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">24</td> <td style="text-align: center;">35</td> <td style="text-align: center;">59</td> </tr> </tbody> </table>				National	International	Total	24	35	59						
National	International	Total															
24	35	59															
18.	Number of National / International seminars organized (Last 5 Years)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">National Seminars</th> <th style="width: 33%;">International Seminars</th> <th style="width: 34%;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">2</td> <td style="text-align: center;">6</td> </tr> </tbody> </table>				National Seminars	International Seminars	Total	4	2	6						
National Seminars	International Seminars	Total															
4	2	6															

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in lacks
		02	10.00
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
		2	7.50
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
		1	0.10
22.	No. of inventions and patents	Number of Inventions	Number of Patents
		2	0
23.	No. of PhD thesis guided in the last 5 years	0	
24.	Publications by Faculty (Last 5 Years)	96	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
		0.3	0.8
26.	Number of books in Department library, if any	592	
27.	Number of Journals / Periodicals in the department library	14	
28.	No. of Computers	128	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	21.28	

5.0 Department of Electronics and Communication Engineering – Profile

Srl. No.	Profile Parameter	Parameter Value																				
1.	Name of the Department	Electronics and Communication Engineering																				
2.	Year of Establishment	1980																				
3.	Courses / Programs and subject combinations offered	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Serial Num</th> <th style="text-align: center;">Level of the Program</th> <th style="text-align: center;">Name of the Program</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">UG</td> <td style="text-align: center;">B.Tech</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">PG</td> <td style="text-align: center;">M.Tech</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">Doctoral</td> <td style="text-align: center;">PhD(ECE)</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	1	UG	B.Tech	2	PG	M.Tech	3	Doctoral	PhD(ECE)								
Serial Num	Level of the Program	Name of the Program																				
1	UG	B.Tech																				
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3	Doctoral	PhD(ECE)																				
4.	Number of Teaching posts sanctioned and Filled	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sanctioned</th> <th style="text-align: center;">Filled</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">83</td> <td style="text-align: center;">83</td> </tr> </tbody> </table>	Sanctioned	Filled	83	83																
Sanctioned	Filled																					
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5.	Number of Administrative Staff	03																				
6.	Number of Technical Staff	15																				
7.	Number of Students (Men / Women) Give details course-wise	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Program</th> <th style="text-align: center;">Men</th> <th style="text-align: center;">Women</th> <th style="text-align: center;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">B.Tech</td> <td style="text-align: center;">825</td> <td style="text-align: center;">258</td> <td style="text-align: center;">1083</td> </tr> <tr> <td style="text-align: center;">M.Tech</td> <td style="text-align: center;">38</td> <td style="text-align: center;">80</td> <td style="text-align: center;">118</td> </tr> <tr> <td style="text-align: center;">Ph.D</td> <td style="text-align: center;">9</td> <td style="text-align: center;">9</td> <td style="text-align: center;">18</td> </tr> <tr> <td style="text-align: center;">Total</td> <td style="text-align: center;">872</td> <td style="text-align: center;">347</td> <td style="text-align: center;">1219</td> </tr> </tbody> </table>	Program	Men	Women	Total	B.Tech	825	258	1083	M.Tech	38	80	118	Ph.D	9	9	18	Total	872	347	1219
Program	Men	Women	Total																			
B.Tech	825	258	1083																			
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11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	4																		
12.	Latest revision of the curriculum (Year)	<table border="1"> <thead> <tr> <th>Program</th> <th colspan="3">Year of Revision</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td colspan="3">2010-2011</td> </tr> <tr> <td>M.Tech</td> <td colspan="3">2010-2011</td> </tr> </tbody> </table>				Program	Year of Revision			B.Tech	2010-2011			M.Tech	2010-2011					
Program	Year of Revision																			
B.Tech	2010-2011																			
M.Tech	2010-2011																			
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEFL etc. (Last 5 Yrs)	264																		
14.	Success Rate of students(2010-2011)	<table border="1"> <thead> <tr> <th>Name of the Program</th> <th colspan="3">Success Rate in %</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td colspan="3">98.00</td> </tr> <tr> <td>M.Tech</td> <td colspan="3">100.00</td> </tr> </tbody> </table>				Name of the Program	Success Rate in %			B.Tech	98.00			M.Tech	100.00					
Name of the Program	Success Rate in %																			
B.Tech	98.00																			
M.Tech	100.00																			
15.	Demand Ratio (Number .of seats : No. of applications 2011-2012)	<table border="1"> <thead> <tr> <th>Program</th> <th>Number of seats</th> <th>Number of Applications</th> <th colspan="2">Seats: Applications</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>490</td> <td>2450</td> <td colspan="2">1:5</td> </tr> <tr> <td>M.Tech</td> <td>80</td> <td>400</td> <td colspan="2">1:5</td> </tr> </tbody> </table>				Program	Number of seats	Number of Applications	Seats: Applications		B.Tech	490	2450	1:5		M.Tech	80	400	1:5	
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National	International	Total																		
36	28	64																		
18.	Number of National / International seminars organized (Last 5 Years)	<table border="1"> <thead> <tr> <th>National Seminars</th> <th>International Seminars</th> <th colspan="2">Total</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>2</td> <td colspan="2">7</td> </tr> </tbody> </table>				National Seminars	International Seminars	Total		5	2	7								
National Seminars	International Seminars	Total																		
5	2	7																		

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in Rs Lacks
		9	34.25
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
		12	219.15
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
		4	20.42
22.	No. of inventions and patents	Number of Inventions	Number of Patents
		2	0
23.	No. of PhD thesis guided in the last 5 years	4	
24.	Publications by Faculty (Last 5 Years)	124	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
			0.742
26.	Number of books in Department library, if any	1240	
27.	Number of Journals / Periodicals in the department library	22	
28.	No. of Computers	157	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	43.30	

6.0 Department of Electrical and Electronics Engineering – Profile

Srl. No.	Profile Parameter	Parameter Value																				
1.	Name of the Department	Electrical and Electronics Engineering																				
2.	Year of Establishment	1995																				
3.	Courses / Programs and subject combinations offered	<table border="1"> <thead> <tr> <th>Serial Num</th> <th>Level of the Program</th> <th>Name of the Program</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UG</td> <td>B.Tech</td> </tr> <tr> <td>2</td> <td>PG</td> <td>M.Tech</td> </tr> <tr> <td>3</td> <td>Doctoral</td> <td>PhD(EEE)</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	1	UG	B.Tech	2	PG	M.Tech	3	Doctoral	PhD(EEE)								
Serial Num	Level of the Program	Name of the Program																				
1	UG	B.Tech																				
2	PG	M.Tech																				
3	Doctoral	PhD(EEE)																				
4.	Number of Teaching posts sanctioned and Filled	<table border="1"> <thead> <tr> <th>Sanctioned</th> <th>Filled</th> </tr> </thead> <tbody> <tr> <td>61</td> <td>61</td> </tr> </tbody> </table>	Sanctioned	Filled	61	61																
Sanctioned	Filled																					
61	61																					
5.	Number of Administrative Staff	05																				
6.	Number of Technical Staff	06																				
7.	Number of Students (Men / Women) Give details course-wise	<table border="1"> <thead> <tr> <th>Program</th> <th>Men</th> <th>Women</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>613</td> <td>204</td> <td>817</td> </tr> <tr> <td>M.Tech</td> <td>49</td> <td>16</td> <td>65</td> </tr> <tr> <td>Ph.D</td> <td>01</td> <td>-</td> <td>1</td> </tr> <tr> <td>Total</td> <td>663</td> <td>220</td> <td>883</td> </tr> </tbody> </table>	Program	Men	Women	Total	B.Tech	613	204	817	M.Tech	49	16	65	Ph.D	01	-	1	Total	663	220	883
Program	Men	Women	Total																			
B.Tech	613	204	817																			
M.Tech	49	16	65																			
Ph.D	01	-	1																			
Total	663	220	883																			
8.	Ratio of Teacher to Students	<table border="1"> <thead> <tr> <th>Students</th> <th>Teachers</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td>882</td> <td>61</td> <td>1:14.46</td> </tr> </tbody> </table>	Students	Teachers	Ratio(Teacher: Students)	882	61	1:14.46														
Students	Teachers	Ratio(Teacher: Students)																				
882	61	1:14.46																				
9.	Ratio of Teachers to Research scholars	<table border="1"> <thead> <tr> <th>Eligible Teachers to Guide</th> <th>Scholars</th> <th>Ratio(Teacher: Scholars)</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>1</td> <td>1:0.25</td> </tr> </tbody> </table>	Eligible Teachers to Guide	Scholars	Ratio(Teacher: Scholars)	4	1	1:0.25														
Eligible Teachers to Guide	Scholars	Ratio(Teacher: Scholars)																				
4	1	1:0.25																				
10.	Number of research scholars who have obtained their master's Degree from other institutions	02																				

Srl. No.	Profile Parameter	Parameter Value															
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	3															
12.	Latest revision of the curriculum (Year)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Program</th> <th style="width: 50%;">Year of Revision</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>2010-2011</td> </tr> <tr> <td>M.Tech</td> <td>2010-2011</td> </tr> </tbody> </table>				Program	Year of Revision	B.Tech	2010-2011	M.Tech	2010-2011						
Program	Year of Revision																
B.Tech	2010-2011																
M.Tech	2010-2011																
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEFL etc. (Last 5 Yrs)	150															
14.	Success Rate of students(2010-2011)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of the Program</th> <th style="width: 50%;">Success Rate in %</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td style="text-align: center;">95.00</td> </tr> <tr> <td>M.Tech</td> <td style="text-align: center;">100.00</td> </tr> </tbody> </table>				Name of the Program	Success Rate in %	B.Tech	95.00	M.Tech	100.00						
Name of the Program	Success Rate in %																
B.Tech	95.00																
M.Tech	100.00																
15.	Demand Ratio (Number .of seats : No. of applications 2011-2012)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Program</th> <th style="width: 15%;">Number of seats</th> <th style="width: 20%;">Number of Applications</th> <th style="width: 50%;">Seats: Applications</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td style="text-align: center;">360</td> <td style="text-align: center;">1507</td> <td style="text-align: center;">1:4.19</td> </tr> <tr> <td>M.Tech</td> <td style="text-align: center;">40</td> <td style="text-align: center;">160</td> <td style="text-align: center;">1:4.00</td> </tr> </tbody> </table>				Program	Number of seats	Number of Applications	Seats: Applications	B.Tech	360	1507	1:4.19	M.Tech	40	160	1:4.00
Program	Number of seats	Number of Applications	Seats: Applications														
B.Tech	360	1507	1:4.19														
M.Tech	40	160	1:4.00														
16.	Awards and recognition received by faculty (Last 5 Yrs)	12															
17.	Number of Faculty who have Attended Natl./ International Seminars	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">National</th> <th style="width: 33%;">International</th> <th style="width: 33%;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">12</td> <td style="text-align: center;">22</td> <td style="text-align: center;">34</td> </tr> </tbody> </table>				National	International	Total	12	22	34						
National	International	Total															
12	22	34															
18.	Number of National / International seminars organized (Last 5 Years)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">National Seminars</th> <th style="width: 33%;">International Seminars</th> <th style="width: 33%;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">0</td> <td style="text-align: center;">4</td> </tr> </tbody> </table>				National Seminars	International Seminars	Total	4	0	4						
National Seminars	International Seminars	Total															
4	0	4															

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in Rs Lacks
		0	0.00
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
		02	11.34
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
		-	-
22.	No. of inventions and patents	Number of Inventions	Number of Patents
		5	1
23.	No. of PhD thesis guided in the last 5 years	2	
24.	Publications by Faculty (Last 5 Years)	69	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
			0.243
26.	Number of books in Department library, if any	770	
27.	Number of Journals / Periodicals in the department library	31	
28.	No. of Computers	70	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	55.00	

7.0 Department of Master of Business Administration – Profile

Srl. No.	Profile Parameter	Parameter Value			
1.	Name of the Department	Master of Business Administration			
2.	Year of Establishment	2006			
3.	Courses / Programs and subject combinations offered	Serial Num	Level of the Program	Name of the Program	
		1	UG	BBA	
		2	UG	B.Com(Hons)	
		3	UG	BHM	
		4	PG	MBA(G)	
		5	PG	MBA(A&F)	
		6	Doctoral	PhD(MGT)	
4.	Number of Teaching posts sanctioned and Filled	Sanctioned		Filled	
		28		28	
5.	Number of Administrative Staff	3			
6.	Number of Technical Staff	1			
7.	Number of Students (Men / Women) Give details course-wise	Program	Men	Women	Total
		UG	88	32	120
		PG	157	62	219
		Ph. D	16	6	22
		Total	261	100	361
8.	Ratio of Teacher to Students	Teachers	Students	Ratio(Teacher: Students)	
		28	339	1:12.11	
9.	Ratio of Teachers to Research scholars	Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)	
		6	20	1:3.33	
10.	Number of research scholars who have obtained their master's Degree from other institutions	20			

Srl. No.	Profile Parameter	Parameter Value			
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	5			
12.	Latest revision of the curriculum (Year)	Program		Year of Revision	
		BBA		2010-2011	
		B.Com(Hons)		2010-2011	
		BHM		2010-2011	
		MBA(G)		2010-2011	
MBA(A&F)		2010-2011			
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEFL etc. (Last 5 Yrs)				
14.	Success Rate of students(2010-2011)	Name of the Program		Success Rate in %	
		MBA(G)		88.69	
15.	Demand Ratio (Number of seats : No. of applications 2011-2012)	Program	Number of seats	Number of Applications	Seats: Applications
		BBA	27	50	1:2
		B.Com(Hons)	100	150	1:1.5
		BHM	20	4	1:0.25
		MBA(G)	110	325	1:3.25
16.	Awards and recognition received by faculty (Last 5 Yrs)	3			
17.	Number of Faculty who have Attended Natl./ International Seminars	National	International	Total	
		25	27	52	
18.	Number of National / International seminars organized (Last 5 Years)	National Seminars	International Seminars	Total	
		1	0	1	

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in lacks
		9	1.00
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
		0	0.00
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
		0	0.00
22.	No. of inventions and patents	Number of Inventions	Number of Patents
		5	0
23.	No. of PhD thesis guided in the last 5 years	0	
24.	Publications by Faculty (Last 5 Years)	45	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
			0.3
26.	Number of books in Department library, if any	354	
27.	Number of Journals / Periodicals in the department library	32	
28.	No. of Computers	69	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	124.20	

8.0 Department of Master of Computer Applications – Profile

Srl. No.	Profile Parameter	Parameter Value			
1.	Name of the Department	Master of computer Applications			
2.	Year of Establishment	2004			
3.	Courses / Programs and subject combinations offered	Serial Num	Level of the Program	Name of the Program	
		1	PG	MCA	
		2	Doctoral	Ph.D	
4.	Number of Teaching posts sanctioned and Filled	Sanctioned	Filled		
		4	4		
5.	Number of Administrative Staff	2			
6.	Number of Technical Staff	2			
7.	Number of Students (Men / Women) Give details course-wise	Program	Men	Women	Total
		MCA	23	16	39
		Ph.D	0	-	0
		Total	23	16	39
8.	Ratio of Teacher to Students	Teachers	Students	Ratio(Teacher: Students)	
		4	39	1:9.75	
9.	Ratio of Teachers to Research scholars	Eligible Teachers to Guide	Scholars	Ratio(Teacher: Scholars)	
		1	03	1:3	
10.	Number of research scholars who have obtained their master's Degree from other institutions	3			

Srl. No.	Profile Parameter	Parameter Value			
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	1			
12.	Latest revision of the curriculum (Year)	Program		Year of Revision	
		MCA		2010-2011	
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEFL etc. (Last 5 Yrs)	24			
14.	Success Rate of students(2010-2011)	Name of the Program		Success Rate in %	
		MCA		95%	
15.	Demand Ratio (Number .of seats : No. of applications 2011-2012)	Program	Number of seats	Number of Applications	Seats: Applications
		MCA	60	40	1:0.67
16.	Awards and recognition received by faculty (Last 5 Yrs)	1			
17.	Number of Faculty who have Attended Natl./ International Seminars	National		International	Total
		17		5	22
18.	Number of National / International seminars organized (Last 5 Years)	National Seminars		International Seminars	Total
		2		1	2

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in Rs
		0	0.00
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
		1	15.54
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
		0	0.00
22.	No. of inventions and patents	Number of Inventions	Number of Patents
		3	0
23.	No. of PhD thesis guided in the last 5 years	0	
24.	Publications by Faculty (Last 5 Years)	6	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
			0.5
26.	Number of books in Department library, if any	341	
27.	Number of Journals / Periodicals in the department library	5	
28.	No. of Computers	30	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	21.48	

9.0 Department of Mechanical Engineering – Profile

Srl. No.	Profile Parameter	Parameter Value																				
1.	Name of the Department	Mechanical Engineering																				
2.	Year of Establishment	1981																				
3.	Courses / Programs and subject combinations offered	<table border="1"> <thead> <tr> <th>Serial Num</th> <th>Level of the Program</th> <th>Name of the Program</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UG</td> <td>B.Tech</td> </tr> <tr> <td>2</td> <td>PG</td> <td>M.Tech(CAD/CAM)</td> </tr> <tr> <td>3</td> <td>PG</td> <td>M.Tech(THE)</td> </tr> <tr> <td>3</td> <td>Doctoral</td> <td>PhD(ME)</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	1	UG	B.Tech	2	PG	M.Tech(CAD/CAM)	3	PG	M.Tech(THE)	3	Doctoral	PhD(ME)					
Serial Num	Level of the Program	Name of the Program																				
1	UG	B.Tech																				
2	PG	M.Tech(CAD/CAM)																				
3	PG	M.Tech(THE)																				
3	Doctoral	PhD(ME)																				
4.	Number of Teaching posts sanctioned and Filled	<table border="1"> <thead> <tr> <th>Sanctioned</th> <th>Filled</th> </tr> </thead> <tbody> <tr> <td>71</td> <td>71</td> </tr> </tbody> </table>	Sanctioned	Filled	71	71																
Sanctioned	Filled																					
71	71																					
5.	Number of Administrative Staff	02																				
6.	Number of Technical Staff	17																				
7.	Number of Students (Men / Women) Give details course-wise	<table border="1"> <thead> <tr> <th>Program</th> <th>Men</th> <th>Women</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>933</td> <td>57</td> <td>990</td> </tr> <tr> <td>M.Tech</td> <td>23</td> <td>6</td> <td>29</td> </tr> <tr> <td>Ph.D</td> <td>7</td> <td>2</td> <td>9</td> </tr> <tr> <td>Total</td> <td>963</td> <td>65</td> <td>1028</td> </tr> </tbody> </table>	Program	Men	Women	Total	B.Tech	933	57	990	M.Tech	23	6	29	Ph.D	7	2	9	Total	963	65	1028
Program	Men	Women	Total																			
B.Tech	933	57	990																			
M.Tech	23	6	29																			
Ph.D	7	2	9																			
Total	963	65	1028																			
8.	Ratio of Teacher to Students	<table border="1"> <thead> <tr> <th>Teachers</th> <th>Students</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td>72</td> <td>1019</td> <td>1:14.35</td> </tr> </tbody> </table>	Teachers	Students	Ratio(Teacher: Students)	72	1019	1:14.35														
Teachers	Students	Ratio(Teacher: Students)																				
72	1019	1:14.35																				
9.	Ratio of Teachers to Research scholars	<table border="1"> <thead> <tr> <th>Eligible Teachers to Guide</th> <th>Scholars</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>9</td> <td>1:0.64</td> </tr> </tbody> </table>	Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)	14	9	1:0.64														
Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)																				
14	9	1:0.64																				
10.	Number of research scholars who have obtained their master's Degree from other institutions	06																				

Srl. No.	Profile Parameter	Parameter Value			
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	6			
12.	Latest revision of the curriculum (Year)	Program		Year of Revision	
		B.Tech		2011-2012	
		M.Tech		2011-2012	
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEFL etc. (Last 5 Yrs)	162			
14.	Success Rate of students(2010-2011)	Name of the Program		Success Rate in %	
		B.Tech		95%	
		M.Tech		85%	
15.	Demand Ratio (Number .of seats : No. of applications 2011-2012)	Program	Number of seats	Number of Applications	Seats: Applications
		B.Tech	440	2300	1:5.23
		M.Tech			
16.	Awards and recognition received by faculty (Last 5 Yrs)	20			
17.	Number of Faculty who have Attended Natl./ International Seminars	National	International	Total	
		23	13	36	
18.	Number of National / International seminars organized (Last 5 Years)	National Seminars	International Seminars	Total	
		9	2	11	

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in Rs
		2	10.00
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
		1	7.69
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
		3	20.00
22.	No. of inventions and patents	Number of Inventions	Number of Patents
		10	2
23.	No. of PhD thesis guided in the last 5 years	5	
24.	Publications by Faculty (Last 5 Years)	117	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
			0.50
26.	Number of books in Department library, if any	2085	
27.	Number of Journals / Periodicals in the department library	32	
28.	No. of Computers	250	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	27.04	

10.0 Department of Freshmen Engineering – Profile

Srl. No.	Profile Parameter	Parameter Value																
1.	Name of the Department	Department of freshmen Engineering																
2.	Year of Establishment	1994																
3.	Courses / Programs and subject combinations offered	<table border="1"> <thead> <tr> <th>Serial Num</th> <th>Level of the Program</th> <th>Name of the Program</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UG-1st Year</td> <td>B. Tech</td> </tr> <tr> <td>3</td> <td>Doctoral</td> <td>PhD(ME)</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	1	UG-1 st Year	B. Tech	3	Doctoral	PhD(ME)							
Serial Num	Level of the Program	Name of the Program																
1	UG-1 st Year	B. Tech																
3	Doctoral	PhD(ME)																
4.	Number of Teaching posts sanctioned and Filled	<table border="1"> <thead> <tr> <th>Sanctioned</th> <th>Filled</th> </tr> </thead> <tbody> <tr> <td>143</td> <td>143</td> </tr> </tbody> </table>	Sanctioned	Filled	143	143												
Sanctioned	Filled																	
143	143																	
5.	Number of Administrative Staff	5																
6.	Number of Technical Staff	18																
7.	Number of Students (Men / Women) Give details course-wise	<table border="1"> <thead> <tr> <th>Program</th> <th>Men</th> <th>Women</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>1611</td> <td>494</td> <td>2105</td> </tr> <tr> <td>Ph.D</td> <td>22</td> <td>10</td> <td>32</td> </tr> <tr> <td>Total</td> <td>1633</td> <td>504</td> <td>2137</td> </tr> </tbody> </table>	Program	Men	Women	Total	B.Tech	1611	494	2105	Ph.D	22	10	32	Total	1633	504	2137
Program	Men	Women	Total															
B.Tech	1611	494	2105															
Ph.D	22	10	32															
Total	1633	504	2137															
8.	Ratio of Teacher to Students	<table border="1"> <thead> <tr> <th>Teachers</th> <th>Students</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td>143</td> <td>2105</td> <td>1:14.72</td> </tr> </tbody> </table>	Teachers	Students	Ratio(Teacher: Students)	143	2105	1:14.72										
Teachers	Students	Ratio(Teacher: Students)																
143	2105	1:14.72																
9.	Ratio of Teachers to Research scholars	<table border="1"> <thead> <tr> <th>Eligible Teachers to Guide</th> <th>Scholars</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>32</td> <td>1:2.29</td> </tr> </tbody> </table>	Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)	14	32	1:2.29										
Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)																
14	32	1:2.29																
10.	Number of research scholars who have obtained their master's Degree from other institutions	26																

Srl. No.	Profile Parameter	Parameter Value			
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	1			
12.	Latest revision of the curriculum (Year)	Program		Year of Revision	
		All B.Tech-1 st Year		2011-2012	
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEF L etc. (Last 5 Yrs)	-			
14.	Success Rate of students(2010-2011)	Name of the Program		Success Rate in %	
		B.Tech-1 st Year 1 st Semester		68.10	
		B.Tech-1 st Year 1 st Semester		70.50	
15.	Demand Ratio (Number .of seats : No. of applications 2011-2012)	Program	Number of seats	Number of Applications	Seats: Applications
		All B. Tech 1 st Year	2200	15,000	6.8
16.	Awards and recognition received by faculty (Last 5 Yrs)	0			
17.	Number of Faculty who have Attended Natl./ International Seminars	National		International	Total
		70		40	110
18.	Number of National / International seminars organized (Last 5 Years)	National Seminars		International Seminars	Total
		1		-	1

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in Rs
		0	0.00
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
		3	65.42
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
		0	0.00
22.	No. of inventions and patents	Number of Inventions	Number of Patents
		4	0.00
23.	No. of PhD thesis guided in the last 5 years	0	
24.	Publications by Faculty (Last 5 Years)	83	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
			0.50
26.	Number of books in Department library, if any	256	
27.	Number of Journals / Periodicals in the department library	21	
28.	No. of Computers	297	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	48.57	

D. Departments Dealing with Co and Extra Curricular Activities

11.0 Department of Communication and soft skills – Profile

Srl. No.	Profile Parameter	Parameter Value								
1.	Name of the Department	Communication and Soft Skills								
2.	Year of Establishment	2004								
3.	Courses / Programs and subject combinations offered	<table border="1"> <thead> <tr> <th>Serial Num</th> <th>Level of the Program</th> <th>Name of the Program</th> </tr> </thead> <tbody> <tr> <td>1</td> <td colspan="2">All programs</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	1	All programs			
Serial Num	Level of the Program	Name of the Program								
1	All programs									
4.	Number of Teaching posts sanctioned and Filled	<table border="1"> <thead> <tr> <th>Sanctioned</th> <th>Filled</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>17</td> </tr> </tbody> </table>	Sanctioned	Filled	17	17				
Sanctioned	Filled									
17	17									
5.	Number of Administrative Staff	1								
6.	Number of Technical Staff	1								
7.	Number of Students (Men / Women) Give details course-wise	<table border="1"> <thead> <tr> <th>Program</th> <th>Men</th> <th>Women</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>All students</td> <td>5585</td> <td>2057</td> <td>7642</td> </tr> </tbody> </table>	Program	Men	Women	Total	All students	5585	2057	7642
Program	Men	Women	Total							
All students	5585	2057	7642							
8.	Ratio of Teacher to Students	<table border="1"> <thead> <tr> <th>Teachers</th> <th>Students</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td>17</td> <td></td> <td></td> </tr> </tbody> </table>	Teachers	Students	Ratio(Teacher: Students)	17				
Teachers	Students	Ratio(Teacher: Students)								
17										
9.	Ratio of Teachers to Research scholars	<table border="1"> <thead> <tr> <th>Eligible Teachers to Guide</th> <th>Scholars</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>4</td> <td>1:1</td> </tr> </tbody> </table>	Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)	4	4	1:1		
Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)								
4	4	1:1								
10.	Number of research scholars who have obtained their master's Degree from other institutions	3								

Srl. No.	Profile Parameter	Parameter Value								
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	0								
12.	Latest revision of the curriculum (Year)	<table border="1"> <thead> <tr> <th>Program</th> <th>Year of Revision</th> </tr> </thead> <tbody> <tr> <td>All B. Tech 1st Tear</td> <td>3rd March 2011</td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>	Program	Year of Revision	All B. Tech 1 st Tear	3 rd March 2011				
Program	Year of Revision									
All B. Tech 1 st Tear	3 rd March 2011									
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEF L etc. (Last 5 Yrs)	NA								
14.	Success Rate of students(2010-2011) in CSS Courses	<table border="1"> <thead> <tr> <th>Name of the Program</th> <th>Success Rate in %</th> </tr> </thead> <tbody> <tr> <td>B.Tech-1st Year</td> <td>98.00</td> </tr> <tr> <td>MBA</td> <td>92.00</td> </tr> </tbody> </table>	Name of the Program	Success Rate in %	B.Tech-1 st Year	98.00	MBA	92.00		
Name of the Program	Success Rate in %									
B.Tech-1 st Year	98.00									
MBA	92.00									
15.	Demand Ratio (Number .of seats : No. of applications 2011-2012)	<table border="1"> <thead> <tr> <th>Program</th> <th>Number of seats</th> <th>Number of Applications</th> <th>Seats: Applications</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">Not Applicable</td> </tr> </tbody> </table>	Program	Number of seats	Number of Applications	Seats: Applications	Not Applicable			
Program	Number of seats	Number of Applications	Seats: Applications							
Not Applicable										
16.	Awards and recognition received by faculty (Last 5 Yrs)	-								
17.	Number of Faculty who have Attended Natl./ International Seminars	<table border="1"> <thead> <tr> <th>National</th> <th>International</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>15</td> <td>15</td> </tr> </tbody> </table>	National	International	Total	0	15	15		
National	International	Total								
0	15	15								
18.	Number of National / International seminars organized (Last 5 Years)	<table border="1"> <thead> <tr> <th>National Seminars</th> <th>International Seminars</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">Not Applicable</td> </tr> </tbody> </table>	National Seminars	International Seminars	Total	Not Applicable				
National Seminars	International Seminars	Total								
Not Applicable										

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in Rs
Not Applicable			
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
Not Applicable			
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
Not Applicable			
22.	No. of inventions and patents	Number of Inventions	Number of Patents
Not Applicable			
23.	No. of PhD thesis guided in the last 5 years	-	
24.	Publications by Faculty (Last 5 Years)	20	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
Not Applicable			
26.	Number of books in Department library, if any	185	
27.	Number of Journals / Periodicals in the department library	Nil	
28.	No. of Computers	6	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	2.00	

12.0 Department of Industrial Relations and Placements – Profile

Srl. No.	Profile Parameter	Parameter Value								
1.	Name of the Department	Industrial Relations								
2.	Year of Establishment	2002-2003								
3.	Courses / Programs and subject combinations offered	<table border="1"> <thead> <tr> <th>Serial Num</th> <th>Level of the Program</th> <th>Name of the Program</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">Not Applicable</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	Not Applicable				
Serial Num	Level of the Program	Name of the Program								
Not Applicable										
4.	Number of Teaching posts sanctioned and Filled	<table border="1"> <thead> <tr> <th>Sanctioned</th> <th>Filled</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">Not Applicable</td> </tr> </tbody> </table>	Sanctioned	Filled	Not Applicable					
Sanctioned	Filled									
Not Applicable										
5.	Number of Administrative Staff	10								
6.	Number of Technical Staff	3								
7.	Number of Students (Men / Women) Give details course-wise	<table border="1"> <thead> <tr> <th>Program</th> <th>Men</th> <th>Women</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>All Students</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Program	Men	Women	Total	All Students			
Program	Men	Women	Total							
All Students										
8.	Ratio of Teacher to Students	<table border="1"> <thead> <tr> <th>Teachers</th> <th>Students</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">Not Applicable</td> </tr> </tbody> </table>	Teachers	Students	Ratio(Teacher: Students)	Not Applicable				
Teachers	Students	Ratio(Teacher: Students)								
Not Applicable										
9.	Ratio of Teachers to Research scholars	<table border="1"> <thead> <tr> <th>Eligible Teachers to Guide</th> <th>Scholars</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">Not Applicable</td> </tr> </tbody> </table>	Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)	Not Applicable				
Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)								
Not Applicable										
10.	Number of research scholars who have obtained their master's Degree from other institutions	Not Applicable								

Srl. No.	Profile Parameter	Parameter Value								
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	Nil								
12.	Latest revision of the curriculum (Year)	<table border="1"> <thead> <tr> <th>Program</th> <th>Year of Revision</th> </tr> </thead> <tbody> <tr> <td colspan="2">Not Applicable</td> </tr> </tbody> </table>	Program	Year of Revision	Not Applicable					
Program	Year of Revision									
Not Applicable										
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEFL etc. (Last 5 Yrs)	Nil								
14.	Success Rate of students(2010-2011)	<table border="1"> <thead> <tr> <th>Name of the Program</th> <th>Success Rate in %</th> </tr> </thead> <tbody> <tr> <td>All students</td> <td>100</td> </tr> </tbody> </table>	Name of the Program	Success Rate in %	All students	100				
Name of the Program	Success Rate in %									
All students	100									
15.	Demand Ratio (Number .of seats : No. of applications 2011-2012)	<table border="1"> <thead> <tr> <th>Program</th> <th>Number of seats</th> <th>Number of Applications</th> <th>Seats: Applications</th> </tr> </thead> <tbody> <tr> <td colspan="4">100%</td> </tr> </tbody> </table>	Program	Number of seats	Number of Applications	Seats: Applications	100%			
Program	Number of seats	Number of Applications	Seats: Applications							
100%										
16.	Awards and recognition received by faculty (Last 5 Yrs)	-								
17.	Number of Faculty who have Attended Natl./ International Seminars	<table border="1"> <thead> <tr> <th>National</th> <th>International</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td colspan="3">Not Applicable</td> </tr> </tbody> </table>	National	International	Total	Not Applicable				
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National Seminars	International Seminars	Total								
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Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in Rs
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20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
Not Applicable			
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
Not Applicable			
22.	No. of inventions and patents	Number of Inventions	Number of Patents
Not Applicable			
23.	No. of PhD thesis guided in the last 5 years	-	
24.	Publications by Faculty (Last 5 Years)	-	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
Not Applicable			
26.	Number of books in Department library, if any	-	
27.	Number of Journals / Periodicals in the department library	-	
28.	No. of Computers	03	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	23.00	

13.0 Department of Physical Education – Profile

Srl. No.	Profile Parameter	Parameter Value								
1.	Name of the Department	Department of Physical Education								
2.	Year of Establishment	1981-1982								
3.	Courses / Programs and subject combinations offered	<table border="1"> <thead> <tr> <th>Serial Num</th> <th>Level of the Program</th> <th>Name of the Program</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center;">Not Applicable</td> </tr> </tbody> </table>	Serial Num	Level of the Program	Name of the Program	Not Applicable				
Serial Num	Level of the Program	Name of the Program								
Not Applicable										
4.	Number of Teaching posts sanctioned and Filled	<table border="1"> <thead> <tr> <th>Sanctioned</th> <th>Filled</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> </tbody> </table>	Sanctioned	Filled	1	1				
Sanctioned	Filled									
1	1									
5.	Number of Administrative Staff	7								
6.	Number of Technical Staff	-								
7.	Number of Students (Men / Women) Give details course-wise	<table border="1"> <thead> <tr> <th>Program</th> <th>Men</th> <th>Women</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>All Programs</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Program	Men	Women	Total	All Programs			
Program	Men	Women	Total							
All Programs										
8.	Ratio of Teacher to Students	<table border="1"> <thead> <tr> <th>Teachers</th> <th>Students</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Teachers	Students	Ratio(Teacher: Students)					
Teachers	Students	Ratio(Teacher: Students)								
9.	Ratio of Teachers to Research scholars	<table border="1"> <thead> <tr> <th>Eligible Teachers to Guide</th> <th>Scholars</th> <th>Ratio(Teacher: Students)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>	Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)	1	-	-		
Eligible Teachers to Guide	Scholars	Ratio(Teacher: Students)								
1	-	-								
10.	Number of research scholars who have obtained their master's Degree from other institutions	Nil								

Srl. No.	Profile Parameter	Parameter Value								
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	-								
12.	Latest revision of the curriculum (Year)	<table border="1"> <thead> <tr> <th>Program</th> <th>Year of Revision</th> </tr> </thead> <tbody> <tr> <td colspan="2">Not Applicable</td> </tr> </tbody> </table>	Program	Year of Revision	Not Applicable					
Program	Year of Revision									
Not Applicable										
13.	Number of students passed in NET/SLET/ GATE/GRE/TOEFL etc. (Last 5 Yrs)	Nil-								
14.	Success Rate of students(2010-2011)	<table border="1"> <thead> <tr> <th>Name of the Program</th> <th>Success Rate in %</th> </tr> </thead> <tbody> <tr> <td colspan="2">Not Applicable</td> </tr> </tbody> </table>	Name of the Program	Success Rate in %	Not Applicable					
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15.	Demand Ratio (Number .of seats : No. of applications 2011-2012)	<table border="1"> <thead> <tr> <th>Program</th> <th>Percentage of seats</th> <th>Percentage of Applications</th> <th>Seats: Applications</th> </tr> </thead> <tbody> <tr> <td>All B. Tech 1st Year</td> <td>2%</td> <td>10%</td> <td>1:5</td> </tr> </tbody> </table>	Program	Percentage of seats	Percentage of Applications	Seats: Applications	All B. Tech 1 st Year	2%	10%	1:5
Program	Percentage of seats	Percentage of Applications	Seats: Applications							
All B. Tech 1 st Year	2%	10%	1:5							
16.	Awards and recognition received by faculty (Last 5 Yrs)	-								
17.	Number of Faculty who have Attended Natl./ International Seminars	<table border="1"> <thead> <tr> <th>National</th> <th>International</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	National	International	Total	0	0	0		
National	International	Total								
0	0	0								
18.	Number of National / International seminars organized (Last 5 Years)	<table border="1"> <thead> <tr> <th>National Seminars</th> <th>International Seminars</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	National Seminars	International Seminars	Total	0	0	0		
National Seminars	International Seminars	Total								
0	0	0								

Srl. No.	Profile Parameter	Parameter Value	
19.	Number of teachers engaged in consultancy and revenue generated	Number of teachers engaged in consultancy	Revenue generated through Consultancy works in Rs
		0	0
20.	Number of ongoing projects and their total outlay	Number of Ongoing projects	Total outlay in Lacks
		0	0
21.	Research Projects completed during last 5 years and their outlay	Number of Research Projects Completed	Total outlay in Lacks
		0	0
22.	No. of inventions and patents	Number of Inventions	Number of Patents
		0	0
23.	No. of PhD thesis guided in the last 5 years	-	
24.	Publications by Faculty (Last 5 Years)	3	
25.	Average citation index and impact factor of publication	Average Citation Index	Impact Factor
26.	Number of books in Department library, if any	-	
27.	Number of Journals / Periodicals in the department library	-	
28.	No. of Computers	2	
29.	Annual budget (excluding salary in Lacks during the Year 2011-2012)	253.45	

K L University



NAAC Accreditation - 2012

Part II – Evaluation Report

Section-A (Executive Summary)

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1.0 Incorporation

K L College of engineering which was established during 1980-1981 was later upgraded to the autonomous status by the UGC with effect from 06/09/2006. The autonomous K L College of engineering was later declared as deemed to be the university as it has met all the requisites to be a university. K L E F University was recognized as deemed to be university by the university Grants Commission on 20/02/2009 under section 3 of UGC Act of 1956.

2.0 Certifications and accreditations

The university in the past has achieved NBA Accreditations for 5 of the UG programs during the year 2004 and then got accreditation for all its UG programs during the year 2007. K L C E also obtained ISO-9001 Certification during the Year 2005. K L C E as an autonomous body obtained NAAC accreditation with a CGPA of 3.76/4 which is the highest achievement among private engineering colleges in India.

3.0 Presentation of the Self study report

All the guidelines of the NAAC have been complied with, in presenting the Self Study Report (SSR) which can be used by the peer committee for evaluation. The report contains two parts. Part-1 is related to institutional data and has been presented in three sections which include university data, criteria wise inputs and department profiles. The university is presently operating **13** Departments and the profiles of all the departments have been provided in the Section-C of part-1 of the report. Part-II is related to evaluation which is again presented in 3 sections. The sections are related to Executive Summary which is this report, criteria wise evaluation report and the report on evaluation of all the departments.

4.0 Vision, Mission, Goals and Objectives

The university has clearly laid its vision to be universally recognized institution for delivering higher education and the mission is set with all the key elements. The key elements include academics, research, extension, collaborations, employability, high standards in education, innovation, global positioning of the students by addressing the emerging needs and technologies, specialization, value addition, all round development of the students etc.

Goals have been set for achieving the best in respect of each of the dimension of the higher education system. The objectives that must be achieved in relation to a goal has also been defined and the plan elements spread across a 5 year period related to achievement of the objectives have been determined and the same are used as the basis for the development of university's perspective plan.

5.0 Need assessment of educational programs

The university has been conducting an assessment of the higher educational needs of the local community in the neighborhood of the university, requirements of different cross section of the students, and national human resource requirements. The university also has the mechanism of determining different educational needs in the emerging technologies. Accordingly, the university is offering need based academic programs.

6.0 The admission process.

The national policy related to reservation is considered to determine the composition of the students who are admitted into different programs. Accessibility to the educational programs offered by the **university** to all sections of the people is achieved through the adoption of reservation policy.

The university has been using well drafted publicized admission procedures for reflecting the admissions and the same are circulated to all the stake holders in

different channels which include print, media, internet etc. thereby achieving complete transparency in the admission process. Presently, the university is offering 10 UG programs 14 PG programs and 16 Doctoral programs with an intake of 8570. Gender balancing is achieved by way allocating 33% of the seats to women.

The student's fees are fixed based on the unit cost of delivering academic programs. The fee varies from program to program. A separate committee is constituted to go into various cost elements of delivering educational programs and then the fee to be charged from the students is fixed. The university is offering fee concessions to meritorious and the financially weaker sections of the students. The fee being charged is comparable to the fees being charged by other deemed universities.

7.0 Support services after admission

7.1 Supply of materials to students

All the students are supplied with handbooks and Prospectus that details the educational programs, evaluation methods, curricula, academic calendars, infrastructural details, details of the labs, discipline requirement, conduct, key persons etc. so that the students are completely aware of the way the educational programs are conducted within the university

7.2 The GAP Assessment.

All the students who are admitted are subjected to a written test to determine the knowledge and skill levels and also various expectations of the students in terms of specialization, employment, career, excellence in extra and co-curricular activities etc. Bridge courses are designed and delivered to bring all the students to the same level of knowledge. The students are regularly evaluated and based on their performance, they are identified a slow learners and advanced learners. Slow learners are counseled to change their mode of learning and advanced learners are provided with more

opportunities to learn and exposed to more advanced learning such as working in the research projects.

8.0 The Curriculum design and update process

Feedback of various stake holders, employability of the students, issues related to national importance, global trends, emerging technologies, community orientation, career development etc are considered while designing the curriculum related to different programs. Various initiatives have been taken to restructure the UG programs to bring in the social relevance and job orientation.

The university has designed well laid down curriculum development and approval process involving the faculty and all other stake holders. Several of the institutional and organizational units are involved in the development and approval of the curriculum which include Departmental Academic Committee (DAC), Board of studies (BOS), Academic council (AC) and BOM (Board of Management).

Feedback of all the stake holders is taken once in a semester and the Heads of Departments find the changes that must be made to the curriculum, develop the change request, discuss the same in DAC-BOS and obtain the approval of AC. History of changes made to the curriculum is maintained.

9.0 Academic flexibility

Presently, the university is offering 7 UG programs in Engineering, and 3 in non engineering disciplines. The university is also offering 14 PG programs and 16 PhD programs. The university is offering built-in specialization in all the programs.

The university is following semester based and choice based credit systems. Students have been provided with the flexibility of completing the UG programs within a span of 4-8 years and the PG programs within a span of 2 – 4 years. However, slow students can complete the program within the stipulated period by

opting to study in the evenings and during vacations. 5% of students who are identified based on CGPA have the flexibility to move from one branch to other. The students from other UGC recognized universities can also join the university based on credit transfer and other academic rules and regulations of the university.

10.0 Academic Delivery process

All the programs are delivered time bound with a minimum of 90 instructional days per semester. Every member of the faculty designs his/her delivery system and develops the course contents, course handouts, lab manuals etc.

The delivery process considers the academic calendar which is fixed at the university level. The Internal and Comprehensive examination schedules have been built into the academic calendar. The academic calendar is designed considering the conduct of various units, regular and supplementary examinations and the university policies.

Delivery of all the programs is planned at the university level considering the infrastructural facilities, teaching and non teaching resources. The faculty of the university have been using ICT extensively for design of course contents, course delivery through different methods which include PPT, computer based simulation, video conferencing, DVD/video based content etc. Continuous academic audit is being conducted to ensure quality in the academic delivery.

The learning process is designed to be student centric by adapting active learning methods that include seminars, group discussions, case based delivery, QA sessions, video conferencing etc.,

A student mentor is appointed for a group of 20 students. The mentor counsels the students in different perspectives which include attendance, academic performance, career development, professional development etc. The counselors take corrective actions wherever necessary.

11.0 Teachers quality

The university is recruiting the best of the qualified and experienced teachers to provide high quality education to the students. The university is maintaining Faculty – Student Ratio, Cadre Ratio, Teaching and Non-teaching Ratio etc., and other ratios as per the norms stipulated by AICTE. The university has implemented 6th pay scales to all the employees who are meeting the minimum educational and experience requirements as defined by UGC. The university has appointed **116** Doctorates out of faculty strength of **538**. Teachers are inducted into the system through Ad hoc appointments and then ratified through selection panels which are constituted based on the UGC recommendations. The faculty members are recruited and maintained considering the type of subjects to be taught in respect of all the programs.

The performance of the faculty is monitored through students' feedbacks and also assessed through Self and Institutional Appraisals. The university has implemented the performance based increments system.

To enhance the quality of faculty, several of the initiatives have been taken which include deputation to conferences, subject based workshops, in-service training through orientation programs, conducting international conferences, guest lectures by eminent persons from academia and the industry. The university is also providing study leaves for upgrading the qualifications of the faculty. All the faculty of the university has been trained in usage of the computers for delivering different elements of the educational system. The university is also contemplating starting a staff training centre shortly for the development of high quality faculty.

Several of the teaching innovations have been implemented in the last three years by the faculty of the university which has helped extensively in the enrichment of the educational system of the university. The university is recognizing the best teachers and awarding them suitably.

The faculty members of the university have also served as resource persons for the international conferences and seminars, subject based workshops, guest lectures conducted by other institutions.

12.0 Non Teaching staff quality

The university has designed minimum qualification and experience requirements in respect of different types of non teaching staff. The non teaching staff is selected through properly constituted selection panels. Norms have also been established to maintain the Non-teaching staff strength in different cadres. The performance of the non teaching staff is appraised for taking corrective actions, determining the skill up-gradation programs and the appraisals are being used for awarding and rewarding the best performers. The university is deputing the non teaching staff for different skill up-gradation programs.

13.0 Examinations and Evaluation

The university is continuously evaluating the students through the internal evaluation system which carries a weightage of 40% and through a comprehensive examination with a weightage of 60%. Students are being evaluated through different types of tests which include objective type tests, descriptive type tests, problem solving ability tests through assignment tests, practice oriented tests through laboratory based tests.

The university is following single evaluation for UG programs, double evaluation door based method for PG programs and triple valuation door based method for doctoral programs. Hybrid grading method is being used for grading the students. While top and the least grades are earned based on the absolute grading and the rest of the grades are relative grades.

Both the internal evaluation and comprehensive examinations are evaluated in true transparent manner. As a part of internal evaluation, the students are given solutions to the questions, the marking scheme and the checked answer sheets are shown to the students. The students are allowed to raise their concerns and corrective actions are taken immediately. The transparency in the external

evaluation is achieved through allowing the students for the personal inspection of checked answer sheets and allowing the student to apply for re-assessment.

The results are declared within three weeks and the grade sheets are issued in the fourth week from the last date of completion of the comprehensive examinations

The university is banking on question papers set by external faculty and the evaluation also done by external as well as internal examiners. To improve the quality of the question papers, the university is planning to implement question paper bank and the security of such papers preserved through several encryption mechanisms. The university is contemplating to generate the test papers dynamically just 5 minutes before the examination and distribute the same scientifically as per schedule and layout of the examinations.

The university has implemented a system to tackle all types of malpractices and make the system of examinations and evaluation more efficient and effective.

14.0 Research

The university has focused on research and has achieved results which are commanding and progressive in the last three years. The research and consultancy has been recognized into three segments which include academic research, internal research and sponsored research and consultancy. Each segment is represented by an individual Dean. The university has established centralized university research board that monitors and controls all the activities related to all the three segments of research

The research is promoted among the faculty by implementing different administrative measures that include leave grants, research grants, incentives, fee concessions, research guidance, sponsored research opportunity creation, time allocation for doing research etc.

The university has been making adequate provisions for funding the academic and innovative research projects. The budget for the year 2011-2012 has been fixed at RS 2.76 crores.

The university has established **21** research labs in different disciplines. The university has also developed centers of excellence in the fields of aerospace and nuclear engineering, embedded systems, alternate energy and atmospheric studies. The university is establishing a center of excellence related to development of variety of antennas.

The university has subscribed for 6,169 numbers of journals and e-journals at a cost of **Rs 18.28** Lakhs and subscribed for 9 digital libraries for the academic year 2011-2012.

The members of the faculty of the university have published **800** papers in reputed Journals which are indexed into reputed databases and having good impact factor and **348** papers in the reputed National and International Conferences which are indexed into different digital libraries.

The university has commenced research programs soon after becoming a university and has registered as on date **148** number of research students and the university is about to register another **72** students in the third batch. The university is providing fellowships at the rate of Rs 8000 for full time engineering scholars and Rs 5000 for full time non-engineering scholars. The members of the faculty who are registered into PhD programs are being provided with a fee concession up to 75%. The Board of management is contemplating increasing the scholarships amounts to attract more full time scholars.

The university is quite successful in achieving excellent progress in the area of sponsored research. Continuous support is being given to the faculty during the phases of the proposal preparation, idea creation, conducting of the research, publication of research and following up for the funding. As on date **7** projects

amounting to **47.29** crores have been completed and **29** projects worth **504.20** lacks are in progress and 60 projects worth 1975.67 lakhs are in pipeline.

The university has been conducting the collaborative research in the fields of Aerospace engineering, nuclear engineering, embedded systems, wireless communication, bio technology, antenna and wave propagation, alternate energy and atmospheric studies. Some of the academic research programs being undertaken by the scholars are jointly directed by the faculty of K L E F University and the faculty of other universities including the foreign universities.

The university has achieved **8** patents as on today and many patents are in pipeline for approval. The faculties of the university have received **101** research awards during the last 5 years. The faculty of the university has published **27** books, and submitted **21** theses.

15.0 Consultancy

The university has developed marketing brochures to showcase the capability of the University departments to offer consultancy in many areas. The university has been offering consultancy in **18** different broad areas. The university has earned **32.19** Lacks towards consultancy during last two years.

16.0 Extension

The university departments have been conducting a number of outreach programs during the last three years which include extension lectures, faculty development programs that develops the faculty of other engineering colleges, conducting workshops that are participated in by industry persons and field studies. The university has conducted **24** outreach programs during the last three years.

The university has established an extension center which has several wings in it which include NSS (National Service Scheme), CWW (Center for Welfare and

Wellness) etc., The students & faculty are the members of the wings of the extension center. One-day seminars are being conducted to train the students and to make them aware of the neighborhood problems and train them to deliver the services required by the neighborhood. A number of programs have been conducted for the development of the neighborhood, creating impact on the community in terms of raising the education levels, ability to acquire knowledge related to water, harvesting, pumping, public distribution, social justice etc.

17.0 Collaborations

The university has signed **38** MOUs with Industrial organizations for placements, industry experts delivering the guest lectures, to serve as the members of BOS, and to participate and serve as the resource persons in the workshops conducted by the university. The MOUs signed also include the industrial training and on the Job training to the students as interns which is being implemented as a course on “Finishing School”.

The university has also signed **22** MOUs with foreign universities for enabling joint research, faculty and student exchange, conducting the twining programs etc.

18.0 Infrastructure

The university has provided top class physical facilities as per the norms fixed by AICTE. The university has been augmenting the physical facilities keeping pace with the academic growth. The following are the statistics related to physical facilities created.

Serial Number	Type of Physical facilities	Number	Square Meters	Student Positions
1.	Blocks	13	67,449	
2.	Class rooms	94	13,064	
3.	Tutorial rooms	35	2,117	

Serial Number	Type of Physical facilities	Number	Square Meters	Student Positions
4.	Academic laboratories & Special labs	52	11,277	-
5.	Center of Excellence	4	348	-
6.	Transport(Vehicles)	70	128	3,180
7.	Canteen	4	1056	-
8.	Boys Hostels	4	-	1334
9.	Girls Hostels	1	29,864	-
10.	Guest House	1	498	-
11.	Power supply(KVA)	1160	-	-
12.	Post Office	1	-	-
13.	Bank	1	-	-
14.	Library	13	5324	-
15.	Central computing Facility	1	255	-
16.	Indoor Stadium	1	3619	-
17.	Seminar halls	19	3309	-

The university has spent **46.02** crores of rupees for augmenting the physical facilities, the details of which are placed below:

Serial Number	Type of infrastructure	Amount Spent in Lakhs
1	Land	5.83
2	Buildings	2684.40
3	Furniture	314.90
4	Office equipment	286.50
5	Lab equipment	752.03
6	Library books and equipment	116.21
7	Exercise & Drill equipment	10.30
8	Vehicles	287.10
9	H T Power	4.21
10	M. Lab equipment	16.24
11	R & D expenses	40.41
12	Generator	38.15
13	Others	46.38
Total		4602.66

The university has been providing adequate maintenance budget to make the infrastructure up-to-date and well maintained. The maintenance budget is provided by following a standard procedure.

One unique feature of the university is that most of the maintenance activity is undertaken using the manpower recruited specially for the purpose. 5 departments are being operated for undertaking maintenance related to Electrical, Mechanical, Computers, Software and General Maintenance that include maintenance of buildings, furniture, amenities, ambience etc. The university is archiving utmost efficiency due to these strategic decisions.

The allocation of infrastructural facilities is done centrally considering the requirements to run programs. The centralized allocation of the facilities is helping optimum utilization of the resources.

19.0 Learning resources

19.1 Central Library

The university has built a state of the art library with a seating capacity of 1000. The university is also building a new modern facility of 1 Lakh square feet for housing the state of the art library.

The central library is headed by a librarian and ably guided by a professor-in-charge. In addition an advisory committee has been constituted to advise and support the librarian.

The central library has been provided with most of the collections which include books, e-books, journals, e-journals, CDS/DVDS, archives, reviews, reference books, book banks, digital library, term papers, project reports, dissertations, thesis, conference proceedings and the quantity of collections maintained are in line with the norms prescribed by AICTE. As on date, 26,689 books, 1, 01,230 volumes, 1,200 e books, and 6000 e-journals are stacked in the central library inventory. The collections in the central library caters to the requirements of the students, scholars, faculty, staff and the management

The central library has also been provided with many of the infrastructural facilities that include computers, Biometric devices, Reprographic machines, TV, video cameras, DVDs/CDs and internet connectivity to every computer.

The central library has implemented many ways to ensure access and use of the Library by the students, faculty, scholars and staff. Some of the actions taken include making the library timings suiting to the type of activity taking place as per the academic calendar, automating the library, fixation of norms for issue and return of the books etc.

The utilization of the Central Library by the students stands at **1326** students/day and the utilization of the central library by faculty stands at 24 faculty/day. The utilization of the central Library is at the acceptable levels. The

librarian has taken number of measures to motivate the students and faculty to visit the library and also to make them read the new arrivals.

The central library has implemented many of the measures to secure the library. The measures implemented include ID cards, physical security, and authentication through biometric devices, security checks, login access through user ID & password and surveillance through video cameras

The librarian keeps track of all the latest editions through referencing publisher catalogues, searching web sites, visiting the exhibitions, accessing the DELNET services and makes a list of such new editions and circulates the same to the departments and obtains the recommendations before the purchase action of same is undertaken. The Librarian uses a standard purchase procedure as laid down and approved by the university. The information on the new arrivals is circulated through display board, email messages, and by web hosting such arrivals to make the students, faculty and the scholars know about the new arrivals.

The archive section maintains all the back volumes and the same are used for literature survey by the users. The internet service connected to all the 60 computers are used extensively through the library timings for accessing the digital libraries such as IEEE, ASME, ASCE, and ACM. The internet facility is also being used for online access of the e-books and e-journals.

An amount Rs. 163.74 Lacks has been spent on the purchase of books and journals during last 5 Years.

19.2 Department Libraries

In addition to central library, every department has been provided with a departmental library that houses latest books and journals that are referred in the latest curriculum. In addition the department libraries also stack term reports, project reports and thesis for reference by the faculty and the students. The faculty

makes book requisitions when they find the books needed by them are nonexistent in either central or departmental Library

19.3 ICT as learning resource

The accessibility of the computing resources is made available to the entire faculty, staff and the students through an Optic fiber network and a Wi-Fi network. The university has provided a bandwidth of **145MBPS** to facilitate communication through emails, and file transfers.

19.4 Central Computing Facility

A central computing facility with **250** computers connected on a Local Area Network is provided for access by all the faculty, students and staff. The facility is opened for **14 hours** on all working days. In addition every department has been provided with local computing facility. The computing facilities are made available to the faculty and the students at free of cost.

The university has provided all the required computers, peripherals, and software needed by the faculty to help them prepare course materials, delivering various courses through PPT and simulation with the help of LCDs and the computers, conduct of language lab, guest lectures, subject workshops, and creation of subject based web sites and accesses the e-books and e-journals. The faculty are also provided with complete internet access for making them prepare and delivery high quality educational programs

20.0 Other infrastructural Facilities

20.1 Hostels

The university is maintaining one girl's hostel and four boy's hotels that can accommodate 704 girls 1334 boys. The girls' hostel is being expanded to accommodate 700 more number of girls. All the hostels are aesthetically deigned with modern cooking range and electronic devices.

20. 2 Transport Facilities

The university is operating **56** buses on different routes connecting all the neighboring cities which include Vijayawada, Guntur, Mangalagiri and Tenali. **3180** seats are provided in all the busses put together.

20. 3 Sports and Games Faculty

The university has provided all the sports complexes to facilitate conducting both indoor and outdoor sports and games specially catering to girls and boys and both. The university is maintaining **33** complexes that can accommodate **1000** students simultaneously. All the complexes are built to the standards. The facilities are being used to conduct both National and International events. The university has built a Yoga center and a modern Gymnasium. The university has appointed **13** coaches to provide specialized training to the students and to bring them to different levels of competence.

20. 4 Health center

The university has on campus a medical dispensary which is provided with all the first aid kits and emergency drugs. One male and one female doctor visit the campus on part-time basis. The university has also drawn an MOU with a nearby multi-specialty hospital. A vehicle is provided round the clock to meet all the emergency requirements.

20. 5 Central workshop/Instrumentation center

The university is maintaining a central workshop at which operations like Black smithy, Tin smithy, carpentry, welding, and foundry, surface finishing and profiling can be undertaken

21.0 Student progression services

7788 students are on campus out of which **5686** number of students are boys and **2102** are girls. The student strength is well gender balanced. The university

has on date **182** foreign students on rolls representing 7 countries. The *student* strength is well distributed across the states and countries. The student strength is also well represented by various communities that include SC, ST and OBC

From next academic year onwards around 2200 students are expected to be graduated and based on the experience of KLCE, around 15% of student's progress to higher studies and the rest of the students take up employment through the placement activity conducted by KLCE/KLU. The dropout rate is negligible. All the 15% of the students get qualified in the competitive examinations such as CAT/GATE/PGECET/GRE/GMAT etc.

22.0 Student and faculty support services

The university is providing many of the support services to both Indian and foreign students. All the students are provided with latest handbooks and prospects which provide complete details of the programs and other important details to the students. Financial support is extended to the needy wherever possible. Different types of support services are made available to SC and ST students and differently abled students.

The university is providing counseling and placement services. The department of communication and soft skills having a strong team of 29 members(17 CSS + 12 English) train all the students to attain excellent Soft and Communication skills which are required by the students for pursuing careers of their choice.

The Industrial Relations and Placement department (IRP) takes the responsibility of achieving 100% placement. The university is proud to state that 100% placement of all the registered students is being achieved since 2005.

Foreign students are supported by providing various services that include submission of statutory reports, travel arrangements, immigration coordination, organizing visa extension services, providing medical assistance etc.

The woman's forum established by the university provides counseling services which include conducting the seminars and workshops that deal with woman rights, woman reservations, and government sponsored research schemes etc. the counseling services also include career counseling, dealing with gender based issues, availability of medical facilities etc.

University designates one faculty for a set of 20 students who counsels the students in different directions including the academic and personnel counseling. Faculty records various important elements such as attendance, internal marks, back logs, CGPA, performance during the placement sessions etc and counsels the students and also takes corrective actions wherever necessary.

The university has established Alumni Cell that keeps track of all the Alumni and coordinates various activities through them. The cell helps other functionaries in establishing connections with the Alumni. The alumni are contributing to the university in several ways which include creating placement opportunities, serving as members on BOS, delivering guest lectures, act as resource person for the workshops conducted by the university etc.

The university has also established an Innovation, incubation and entrepreneur development cell which encourages and conducts various activities that help the student to take self employment path.

The grievances and complaints of the students and faculty are handled by two separately formed committees which are formed at the university and department level. All the grievances and complaints are recorded and resolved. The grievances and complaints that cannot be resolved at department level are escalated to the university level and then resolved.

The university is extending different welfare schemes such as fee waivers, scholarships, travel assistance, medical assistance etc. to the students.

The university has implemented a number of measures that enhances the quality of education with reference to student progression and support. Some of

the initiatives taken by the university include conducting bridge courses, weak student classes etc.

The university is taking continuous feedback from the students regarding the quality of support services extended to them. Similarly the university is also taking feedback from the employers regarding the student progression. The feedbacks are used to either enhance the services or improve the existing services

23.0 Governance and leadership

The university has developed an organization setup that strategically places all the authorities and officers as defined by UGC at specific levels. The head of the institution is the Vice Chancellor (VC) who chairs the academic council, Board of Management which is basically decision making bodies of the university. The VC also chairs other recommending bodies such as Planning and monitoring board, research board and finance committee. The university has appointed the officers as defined by UGC, who include the finance officer, Controller of Examinations and the Heads of the departments.

The faculty of the university are nominated as members of different bodies involving them in decision making process. Regular meeting of the statutory bodies are conducted and the resolutions of those meetings are circulated and follow-up is made to make the decisions implemented by the responsible persons concerned.

The university has appointed a set of Deans and Directors to define monitor and control the administration around specific functions. 6 Deans and 6 Directors have been identified for managing different type of functions. The entire administration of the university is thus decentralized around the functional Deans and Directors. The administration is hierarchically decentralized around the functional lines.

The university has an effective internal coordination and monitoring setup. The university has adopted broad based coordination mechanism when there is dependency over the major functions. The university has implemented appropriate mechanism to implement coordination and monitoring system.

The management meets the students, faculty and the staff at regular intervals and shares the directions of the university and also listens to them the difficulties they are facing so that solutions to the problem are either explained during the meetings or circulated latter.

The university has developed a prospective plan for the period 2009-2010 to 2014-2015. The perspective plan includes various aspects of institutional development. The perspective plan considers overall growth rate in multiple dimensions and includes both physical and financial planning. The plan also includes the strategic planning to be adopted by the university to be competitive. All the cross section of the administrative and functional heads is involved in the perspective planning of the university.

The university has implemented a sound and reasonable financial management system. Budgeting and controlling being used as one of the major planning tools. The university is self financed and the income and expenditure of the university are fairly balanced. Sufficient operational and maintenance budgets are provided so that the educational programs are delivered most efficiently without any compromise. The accounts are being audited regularly by the internal auditing staff and also by the external auditors.

24.0 Quality assurance

The university has setup an internal quality assurance cell headed by a Director to assure quality in every perspective of the organization. The cell is primarily responsible to define, develop and implement a quality system and to make the quality system internalized into different processes used across the

organization. Several quality assurance mechanisms have been identified and put into use. The mechanisms include metrics, norms, standards, procedures and verification and validation procedures, change control, document control etc.

The quality assurance cell has defined different procedures and the standards that must be maintained across different procedures. The quality cell conducts both in process and out process verification of the implementation of the procedures, non conformances are identified and corrective actions wherever necessary are proposed.

The students of the university also contribute to the quality education at the university through feedbacks, participation in the departmental committees, develop documentation as per standards and use the norms and metrics for evaluation of their own performance.

The university conducts one-day seminars on the importance of quality system and the way the quality is assured and internalized in various processes that are used for implementation of the entire education system.

The university has developed best practices considering different facets of the university which are converted into procedures built with quality assurance mechanisms. The university has been enhancing the quality of the students through improvements in several areas that include communication, problem solving, enhanced skill development, knowledge in the emerging technologies etc.

25.0 Other inclusive strategies

The university has developed several other inclusive strategies for achieving gender balance, recruitment of staff from disadvantaged communities, access to the educational programs to the disadvantaged community, intervention for the overall development of students, recording and monitoring the incremental growth of the backward students, promotion of social justice and good

citizenship, maintaining good relationships with all the stake holders, creation of new programs for development of overall ambience of the university, determining and enhancing the stakeholders satisfaction especially the satisfaction of the student community relative to industry standards and benchmarks, eliciting the cooperation of the stake holders, promoting the social responsibilities among the students and faculty, development of neighborhood, handling effectively all the complaints and grievance of the students, faculty and staff etc.

26.0 Implementing Best Practices

The university has implemented several of the best practices to achieve academic excellence through usage of curriculum management models, academic flexibility, built-in specialization, controlled academic delivery, in-built mechanisms to inculcate skills and practice. Best practices are observed to sustain quality from the points of curricular design, academic flexibility, stake holder's feedback, and curriculum update.

Many of the best practices that are related to admissions, meeting the diverse needs of the students, and implementation of best teaching and learning process, teachers quality, examinations and evaluation have been implemented.

The university has implemented best practices to enable extensive research and yield many quality research outcomes which include increase in number of sponsored and consultancy projects, increase in number of publications etc. have been implemented.

The university has adapted several best practices for maintaining the infrastructural facilities as per norms. The university has been also practicing some of the best practices to deliver efficient support services and controlled progression of the students into different levels of learning and employment.

The university has been implementing best of the practices for setting the institutional vision, leadership, organizational arrangement. Strategies,

deployment of the human resources, financial management and resource utilization

27.0 Conclusion

The university has been making all-out efforts to make the university world renowned and turning every stone towards that direction. The university believes in enhancing its values through undergoing certification by esteemed bodies like NAAC. We are sure that NAAC will be highly satisfied with the way the university has positioned itself especially in meeting all the considerations to be a deemed university.

K L University



NAAC Accreditation - 2012

Part II – Evaluation report

**Section-B (Criteria wise Evaluation
Report)**

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1.0 Curricular Aspects

1.1 Curriculum Design and Development

1.1.1 State the vision and mission of the institution.

Vision

To be a globally renowned university

Mission

To impart *quality higher education and* to undertake research and extension with emphasis on application and innovation that cater to emerging societal needs through all-round development of students of all sections enabling them to be globally competitive and socially responsible citizens with intrinsic values.

1.1.2 What are the major considerations addressed by the goals and objectives of the institution? (Intellectual, Academic, Training, Access to the Disadvantaged, Equity, Self development, Community & National development, Ecology and environment, Value orientation, Employment, ICT introduction, Global demands, etc.)

GOALS AND OBJECTIVES

Following are the goals and objectives of KL University (KLU).

1) Institutional

Goals

1. To be one among the top universities in India
2. To build a cadre of globally competent and socially responsible human resource.

Objectives

- i. To achieve all round development of the students in various areas like academics, research, professional skills, entrepreneurship, co curricular and extracurricular activities.

2) Academics

Goals

3. To offer higher level educational programs, addressing the emerging needs, accessible to all sections of society
4. To focus on Science, Engineering, Technology and Management disciplines with in-built specialization
5. To deliver academic programs mainly through application-driven innovative and student centric methods using ICT
6. To adopt flexible and adaptable academic models that include cafeteria approach in the design of academic programs

Objectives

- ii. To be a model University for imparting value based education at all four levels i.e., UG, PG, Doctoral and Post Doctoral levels
- iii. To offer academic programs that address the educational requirements of a spectrum of students that includes woman, differently abled, socially backward, employees etc
- iv. To offer appropriate UG and PG programs in open distance learning mode
- v. To identify and introduce a good number of new PG programs in highly specialized as well as emerging areas
- vi. To develop a framework and incorporate science based foundations into the focused academic programs
- vii. To design the entire educational system around a set of widely accepted educational models.

- viii. To offer skill oriented certificate courses to enhance employability of the students
- ix. To incorporate multi-disciplinary studies in academic programs
- x. To deliver courses through information communication Technology (ICT)
- xi. To implement academic delivery systems through effective pedagogy

3) Intellectual/Research

Goals

- 7. To undertake research in contemporary and emerging areas of national priorities and international concerns.
- 8. To offer training and consultancy services to various organizations.
- 9. To contribute to the community development through field-based research

Objectives

- xii. To be known internationally through research publications, patents, and books
- xiii. To establish centers of excellence
- xiv. To conduct academic research in the emerging and interdisciplinary areas.
- xv. To develop the research ambience that is conducive to undertake sponsored research programs of National importance.
- xvi. To offer consultancy services to a wide spectrum of industrial organizations.
- xvii. To develop and implement an innovation cell that involves students in research, development and consultancy.

4) Training

Goal

10. To design, develop and deliver faculty talent promotion programs including the use of ICT to enhance the competence of teaching fraternity.

Objective

xviii. To establish academic faculty development centre for the development of quality teachers.

5) Equity/Access to Disadvantaged

Goal

11. Enhancement of capacity and improvement of infrastructure which can attract and facilitate the retention of the students from rural and backward areas as well as disadvantaged and marginalized social groups.

Objective

xix. Offering scholarships and fellowships for disadvantaged groups.

6) Self Development

Goal

12. To cater for the self development of the students through provisions made for self development

Objectives

xx. To ensure that the curriculum for all the programs will have provision for self learning through industrial visits, assignments, presentation, peer interactions etc.

xxi. To provide wide access to knowledge resources, like books, e-books, journals, e-journals etc.

xxii. To provide access to audio visual facilities and multipurpose labs.

7) Community Development

Goal

13. To contribute to the community development through extension activities

Objectives

- xxiii. To organize extension activities, covering the literacy promotion, health awareness and social service
- xxiv. To provide consultancy in the areas of soil testing, power consumption, land use and water harvesting.

8) National Development

Goal

14. To produce high quality technocrats, scientists, entrepreneurs, leaders and other professionals.

Objectives

- xxv. To align the academic programs and courses to match the requirements of the nation's goals and development.
- xxvi. To develop research ambience that is conducive to undertake sponsored research programs of National importance.

9) Ecology and Environment

Goal

15. To develop sense of responsibility among students on ecology and environment

Objectives

- xxvii. To include suitable topics in the curriculum for creating awareness about ecology and environment and their impact on the climate/environment.

xxviii. To include a subject on ecology and environment uniformly in all the programs

10) Value Orientation

Goal

16. To build character and develop value orientation among the students

Objectives

xxix. To create a provision in the curriculum on ethics, social responsibilities and moral values

xxx. To organize seminars, workshops, guest lectures and other co-curricular activities to build value systems

11) Employment

Goal

17. To achieve enhanced employability and 100 % placement on a continuous basis.

Objectives

xxxi. To design a curriculum matching the requirements of industry and business.

xxxii. To impart communication and soft skills training to enhance employability

xxxiii. To provide hands on training to the students through the concept of finishing school.

12) ICT Introduction

Goal

18. To integrate ICT in the design of curriculum and instructional process

Objectives

xxxiv. To incorporate ICT related topics in the curriculum

- xxxv. To lay additional emphasis on the use of technology enhanced learning.
- xxxvi. To make extensive use of Open Education Resources(OER) and web sources
- xxxvii. To provide training to the faculty on ICT enabled teaching through in-house ICT Training Centre.
- xxxviii. To have audio visual centre to develop electronic video/audio lectures
- xxxix. To enhance accessibility through e-learning sites

13) Global Demands

Goal

- 19. To equip students with skills and attributes to meet the changing global demand.

Objectives

- x1i. To enhance the capabilities of students through a combination of technical skills, soft skills, contextual learning, problem solving, research orientation and experiential learning.

14) Examination and Evaluation

Goals

- 20. To design and implement highly transparent evaluation system.

Objectives

- x1ii. To introduce reforms in the system of examination and evaluation that result in high quality assessment.
- x1iii. To computerize every facet of examination system.

15) Linkages

Goals

21. To establish linkages with various academic, industrial and other organizations to collaborate in the areas of academics, research, consultancy, training, employment and extension.

Objectives

- x1iv. To forge collaboration/alliances with global organizations/institutions that creates perfect academic, research and corporate interface for up-gradation and transfer of knowledge.
- x1v. To establish necessary linkages to implement finishing school as a part of the curriculum.
- x1vi. To equip students with a judicious mix of natural ability, creative zeal and professional expertise leading to over all career development.

16) Infrastructure

Goal

22. To build, maintain and enhance the state of the art infrastructure to meet the emerging needs and trends

Objectives

- x1vii. To build and operate a world class state of the art library
- x1viii. To build and operate latest teaching-learning infrastructural facilities.
- x1ix. To provide world class hostel facilities
- x1x. To provide adequate faculty and staff quarters to bring in a residential campus culture

The following major considerations have been addressed after setting the goals and objectives of the university.

The university has appointed qualified faculty with minimum post-graduation in the relevant disciplines and as per the norms of UGC. Every department has Ph. D holders on its faculty to promote research activity and enhance the quality of teaching. The students are encouraged to take up innovative project work. The members of the faculty are given access to each student through the campus-wide local area and wide area network. Research journals and academic contents are given access to the students and faculty members. Some of the methods adopted by the faculty members have resulted in advancing the knowledge on analytical skills and problem solving. Students with exceptional abilities are identified and exposed to attempt to solve research oriented problems. All efforts are made to elevate **intellectual** levels of students.

Academic activity includes curriculum design to curriculum delivery. Curriculum design and development is done basing on the continuous feedback from the stakeholders. Curriculum is reviewed on a regular basis involving academicians, industry experts and professionals by considering the suitable inputs from the feedback obtained from the stakeholders and regularly updated. Teaching learning process is carried out through modern teaching aids.

The students are provided **training** for skill development, a continuous process in the university. More than 50% of the training period is exclusively allocated for individual skill development. Slow learners are extra coaching. Remedial classes are periodically conducted to groom the skills of the slow

learners. Suitable facilities are provided for the physically challenged people for encouraging them to have access to the best methodologies of teaching-learning process with special assistance. Training the teachers and other employees is given the highest importance in the university. In each semester, almost every faculty member receives training on new topics/new developments.

Students with different academic, social, and **family** backgrounds join the university. The university has been conducting suitable programs for improving communication skills and analytical skills. Bridge courses are also conducted as per the needs of the **disadvantaged** students.

Self-development programs in the university provide excellent opportunities for students to get **exposed** to new challenges. Students are encouraged to participate in industrial visits, sports and games, seminars and conferences, quizzes and tutorials and several other events including leadership camps. Students are given access to knowledge resources and are encouraged to use computer and audio-visual aids.

Extension programs are conducted by the university through a systematic process by setting targets to each department involving teachers as well as students. Several villages in the neighborhood have benefited through this process in terms of health, hygiene, education, electrical maintenance, sanitation, roads maintenance, plantation, nutrition, school teachers training, soil testing, use of solar energy, water harvesting and use, land use, power consumption, use of fertilizers and pesticides etc.

University adopts national policies on education to orient the students to meet the requirements of the national development and give insights into intrinsic knowledge required for different sectors of economy and for **national development**.

Orientation programs are conducted to expose the students to **ecology and environment**, tree plantation on a continuous basis. The university conducts programs on **ethics and moral values**. Students are also exposed to programs on social responsibilities. Experts are invited for delivering lectures related to value system to mould the students as responsible citizens of the country.

The university is established on excellent foundation of KL College of Engineering which has a unique name in Andhra Pradesh as a **100% placement** institution. All the candidates who want placement are facilitated to get **employment** through campus interviews by almost 100 leading companies in the country. In fact, some of the students get selected in more than one company and the university has allowed a maximum of three offers in order to give equity to all.

Information and Communication Technology (ICT) is extensively used in the university for not only teaching-learning process but also for administration and student support. The campus is Wi-Fi enabled. Each student is equipped with a laptop. Each class room is provided **with** LCD based and audio system for lecturing. Online tutorials are arranged. Part of the evaluation process is conducted online.

University is sensitive to the **global demands**. Suitable measures are taken in order to train the students to meet the global demands and challenges. Students are oriented to the goal of problem solving with team spirit. Communication and soft skills are imported with universally expected etiquette.

Examinations are conducted regularly and standard evaluation processes are evolved in the University. Pre-examination and post-examination activities are regularized with **transparency** so that students are given a fair chance to understand their performance and develop on a continuous basis.

University has established **linkages** with various academic, industrial organizations in the country and abroad for promoting academic interactions, consultancy, training, extension activities and research. These linkages have resulted in good transfer of knowledge, upgradation of syllabus and introduction of case based approach in teaching-learning processes. Several projects are designed to enhance and showcase the problem solving capabilities of students.

The State-of the-Art infrastructure is created in the campus to meet the demands on teaching, training, sports, extra-curricular activities, health and hygiene and all such essential skills to meet the global demands and to transform the students into **socially responsible citizens**.

1.1.3 How institutional goals are translated into the academic program, research and extension activities of the institution?

The institutional goals are translated into reality in the following manner:

ACADEMICS

The University currently is offering the following programs:

Program Number	Name of the Program	Field of study
List of UG Programs		
1.	B.Tech (Bio Tech)	Bio Technology
2.	B.Tech (CIVIL)	Civil Engineering
3.	B.Tech (CSE)	Computer Science Engineering
4.	B.Tech (ECE)	Electronics and Communication Engineering
5.	B.Tech (EC)	Electronics and Computers
6.	B.Tech (EEE)	Electrical and Electronics and Engineering
7.	B.Tech (ME)	Mechanical Engineering
8.	BHM	Bachelor of Hotel Management
9.	BBA	Bachelor of Business Administration
10.	B.Com(Hons)	Accounting and Finance
List of PG Programs		
1.	M.Tech	Bio Technology
2.		Structural Engineering
3.		Computer Science and Engineering
4.		Computer Networks and Security
5.		Communication and radar System
6.		VLSI
7.		Embedded Systems
8.		Power Electronics and Drives
9.		Power Systems
10.		CAD-CAM
11.		Thermal Engineering
12.		Computer Integrated Manufacturing
13.	MBA	Business Administration
14.	MCA	Master of Computer Applications

Program Number	Name of the Program	Field of study
List of Doctorial Programs		
1.	Ph.D	Bio Technology
2.		Civil Engineering
3.		Computer Science and Engineering
4.		Computer Science
5.		Electronics and Communication Engineering
6.		Electronics and Computers
7.		Electrical and Electronics and Engineering
8.		Mechanical Engineering
9.		Physics
10.		Chemistry
11.		Mathematics
12.		English
13.		Management
14.		Commerce
15.		Communication and Soft Skills
16.		Nuclear Engineering

Value added (Curricular and extra-curricular) certificate courses

Sno	Name of the Certificate Course	Sno	Name of the Certificate Course
1	Adobe certification (ACA)	12	ADAMS Simulation / Optistruct Motion
2	Microsoft certification	13	Embedded C Programming
3	IBM certification	14	Certification on Yoga & Meditation
4	CCNA certification	15	Certification on Basket Ball
5	Schodienger	16	Certification on Table Tennis
6	Pro-E Modeling	17	Certification on Valley Ball
7	Altair Hyoper – works	18	Certification on Cricket
8	Xilinx Certification using verilog	19	Certification on Lawn Tennis

Sno	Name of the Certificate Course	Sno	Name of the Certificate Course
9	HTML5	20	Certification on Kabadi
10	Oracle certified Association	21	Certification on Throw Ball
11	N1 Multisim	22	Certification shuttle Badminton

RESEARCH

Research is monitored by a research board at the University level. The total research activity is divided into 3 categories namely In-house funded research, academic research and sponsored research & consultancy. Each of the research areas is headed by a Dean. The research Deans facilitate and monitor the progress of the research and report the same to a research board headed by the Vice Chancellor. It takes all strategic decisions and corrective actions.

The university is known for its research **publications including papers, books** and abstracts in the areas of engineering, science and management. The number of publications as on date stands at 1205 over the last five years. The number of patents as on date is 08.

It established **Centers of Excellence** like Aerospace engineering and center for advanced research, embedded systems, Atmospheric studies and centre for Alternative energy.

EXTENSION

The university also serves the society through various extension activities which include delivering of the guest lectures by the faculty of the university,

organizing community development programs and social service activities through the extension service centre of the university.

1.1.4 How does the university guide its colleges to develop programs based on their regional needs? (Not applicable for unitary universities)

Not applicable

1.1.5 Specify the steps undertaken by the institution in the curriculum Development process. (Need assessment, development of information database from faculty, students, alumni, employees and academic experts, and formalizing the decisions in statutory academic bodies.)

The following steps are taken by the university in the curriculum development process:

1. Conduct local need assessment through field based survey and interaction
2. Conduct global need assessment that considers emerging trends, future technologies, requirement of competencies, skills, availability of careers and jobs
3. Regular feedback on curriculum is taken from students, parents, academic peers and experts, industry, employers, alumni etc.
4. Formulating new requirements and preparing a statement of changes required for updating curriculum and recommendation of the same by Departmental Curriculum Committee (DCC) in consultation with the University Curriculum Committee (UCC)
5. Development of curriculum for new programs and modifications required for existing programs
6. Discussing the same in the Board of Studies (BOS) and making further modifications, if any
7. Approval by the Academic Council (AC)
8. Obtaining the approval of Board of Management (BOM) in case of new programs

9. Release of the new version of the curriculum for the forthcoming batches of students.

1.1.6 How do the Boards of Studies ensure the currency and relevance of the program offerings?

The Board of Studies (BOS) ensures the relevance of the programs based on both local and global need assessment, feedbacks and surveys conducted in the neighborhood of the university. The BOS of every department is constituted with members from industry and premier academic institutions thereby ensuring that the requirements of industry, emerging trends, future technologies, etc. are considered before finalizing the design of academic programs.

1.1.7 How employability is ensured through Curriculum design and Development?

Employability of students is ensured through the following mechanisms built into the academic programs

1. Courses specially focusing on Communication and Soft Skills
2. Delivery of Lab based courses using tools that are widely used in the Industry
3. Offering technology based value added Certificate Courses like Database Administration, Simulation, etc.
4. Designing Lab experiments which are derived from live applications and domains like Banking, Insurance, Aerospace, etc.
5. Special training programs embedded into curriculum for improving employability such as IBM, Microsoft Certification, Soft Skills, etc.
6. Development of Industry relevant Mini Projects and Projects as part of the curriculum in association with organizations like Auto

link, Precole, BHEL, etc.

7. Simulation based Lab management with industry focused tools such as Proteas, Simulink, Xilinx, etc.

1.1.8 State specifically the curricular design and model adopted by the University in the organization of its curricula.

Washington Accord and Course Composition Model recommended by all India Committee on Curriculum Development initiated by AICTE is used as the basis and specific model is adopted for the design of curriculum for UG and PG programs which is the unique feature of the university. Experts are drawn from reputed academic institutions for developing this model. Further, faculties are given training in the development of curriculum of different programs.

1.1.9 How are the global trends in higher education reflected in the Curriculum?

The global trends in UG and PG level are considered and included in the curriculum in terms of electives through various specialization streams. Topics based on emerging trends are identified in each of the courses which are included in self learning module.

1.1.10 How does the institution ensure that the curriculum bears some thrust on national development?

The national requirements are kept in view, especially in relation to human resource development while finalizing the programs offered by the university. The programs offered by the university have inbuilt thrust on the national development through the following:

1. By developing professional technocrats in various sectors at different levels and contributing their knowledge to local and global needs of the industry and academia who in turn serve the society.
2. The university introduced Kaveri Engine, Cryogenic pump, nuclear fusion, plant condition monitoring, and seven seater civil aircraft as national projects.
3. By offering various programs that create awareness in Ecology, Environment, Energy and Society
4. By delivering entrepreneurs and self sustained human capital that will generate more employment opportunities

1.1.11 What is the composition of the Board of Studies? Specify PG and UG representation in the BOS if there is only one BOS for both?

All faculties/departments in the university have the same structure for BOS both UG and PG programs. University has constituted the BOS as per the rules and regulations of the UGC. The composition of BOS is as follows:

1. HOD as chair person
2. All Professors of the department
3. Two Associate Professors of the department
4. Two Assistant Professors of the department
5. Not more than 2 persons to be co-opted for their expert knowledge including those belonging to the profession or Industry concerned.

1.1.12 Does the institution use the UGC/ AICTE guidelines for developing or restructuring the curricula?

The university uses all the guidelines of AICTE for developing and restructuring curriculum. The Course structure is based on the following guidelines as recommended by AICTE

- The duration of a degree level course should be limited to 4 years/ 8 semesters of about 90 working days each.

- A common first year syllabus with sufficient emphasis on Humanities & Science and Management subjects shall be adopted for all branches of engineering.
- The contact hours per week should normally be kept at about 30 hours.
- Weightage of 15-20% shall be given to non-professional (Basic Sciences and Humanities) subjects and about 10% to Management subjects.
- Normally the curriculum should include a Major Project of minimum 8 credits in Final Year (2 credits in 7th semester and 6 credits in 8th semester). Emphasis should be given to industry sponsored projects.
- Wherever possible the students in 3rd & 4th year should be involved in group discussions on topics of current trends in Engineering & Technology. (No credit)
- There should be a continuous evaluation system.

1.1.13 What percentage of the courses focus on experiential learning including practical and work experience? For overall development of students, what measures have been taken in the Curriculum design?

Sixty percent of the professional/core courses focus on practical learning and work experience. The following are the courses that are included in this category.

1. Courses with lab components conducted through usage of the tools
2. Two mini projects are developed based on the technologies used in industry
3. One final Year B. Tech project/ one M. Tech project
4. Students practice the knowledge through work in Industry, and through a finishing school concept

Beyond the curriculum, certificate level courses are conducted which are completely industry-focused and incorporate future and emerging

technologies. The university, in its curriculum has included the following practicals for the overall development of students in addition to the courses that are included for practical and work experience.

1. Two courses related to skill development
2. Conducting seminars as an evaluation component in respect of term paper, mini project and final year projects.

The university in addition, is offering the following elements which are over and above the regular curriculum to facilitate extra learning

1. Time allocation for conducting seminars, group discussions, professional activities, student association activities
2. Offering certificate programs in fields of games, sports and arts
3. Organizing annual technical and cultural festivals
4. Operating and involving students in entrepreneur development through an Incubation Center
5. Operating a Student Innovation Center

1.1.14 What are the courses aiming to promote value education or social citizenship roles?

The university considered value addition to the students through skill development, industry focused learning, technology orientation, innovativeness, professional development by offering courses which are part of the curriculum and also by offering programs which are outside the curriculum.

The following are the Part of the Curriculum

1. Three courses are designed to impart skills that include logical Reasoning, verbal and non verbal communication, Technical Writing, business ethics, quantitative math, problem solving, working in Teams, leadership, etc.

2. A course on Community development
3. All Labs practicals and experiments are conducted using tools which are used in Industry
4. Technology oriented development through Mini Projects and Final Year Projects
5. Industry oriented exposure through Finishing School concept
6. Experimentation through simulation with the help of special tools procured from companies like Altair, National Instrumentation etc.

The following are the value added certificate courses

The certificate courses in soft skills, Spoken English, C-programming etc.

1.1.15 Is there a provision for computer skills to be incorporated in the curriculum for all students?

All first year engineering UG students are having a course on C Programming, introduced to learning tools like MATLAB, AUTOCAD. Communication Tool, Global Arena for learning Vocabulary, Spoken English, Effective Communication, etc.

Experiments designed to be conducted in the labs require using of various software based tools. Students use Software Tools for Programming, Testing, Analysis and Designing, Developing 2D/3D Graphics, Simulation, Animation, Data Analysis, etc. The most commonly used software tools include MAT Lab, Lab View, PROTEAS, SimuLink, Xlink, Multi-SIM, and Auto CAD. The other software tools are Hyper works, Ansis fluent Motion Joule, Hyper Math, Hyper view, optistruct, Hyper study, Turbo manager.

1.1.16 Are women's issues incorporated in the curriculum? If yes, what are the initiatives taken to introduce woman related courses/topics in the curriculum?

The university has been offering a diploma program on empowerment of women. Further the courses like Human resource management carry some of the topics which focus on issues of the women.

1.1.17 What programs are developed for differently abled students and how the same is implemented?

The university proposes to offer a certificate program on 4-H Differently abled Program which highlights on the abilities of the differently abled students.

1.1.18 What programs are developed for distance education?

The university is proposing to start Centre for Distance Education from the academic year 2012-13. The programs which are to be offered on distance mode are MBA, BBA, B.Com Honors, MCA, Bio-Tech, etc.

1.2 Academic Flexibility

1.2.1 What is the range of program options available to learners in terms of Degrees, Certificates and Diplomas? Give the cut off percentage for admission at the entry level.

Students have the following options to enroll into the academic programs

1. 4 Year UG program in Engineering
2. 4 Year UG program in Commerce
3. 3 Year UG Program in Management
4. 3 Year UG Program in Hotel Management
5. 5 Year Integrated Program in Engineering
6. 5 Year Integrated Program in Engineering with P.G. in Management
7. 2 Year PG programs in Engineering

8. 2 Year PG programs in Management
9. 2 Year PG Science program in Biotechnology
10. 1 Semester Technology Oriented Certificate Courses
11. Doctoral Programs
12. One year Diploma in Human Capital Management
13. Six months Certificate Program in Spoken English
14. Six months Certificate Program in Soft Skills

The cut off percentage of marks at the entry level is 60 in the qualifying examinations for engineering programs and in the case of disadvantaged students the cut off percentage of marks is 55. The cut off percentage of marks at entry level is 50 in the qualifying examinations for Management and Commerce programs.

1.2.2 What programs are offered for employees / professionals in terms of training for career advancement?

The university employees are being trained through workshops organized in specific areas. The workshops are designed to provide hands on experience and encourage employees to use such tools in their respective careers. The employees of other organizations can also enroll into Ph.D. programs as part-time scholars. The university has been offering 13 skill based certificate courses like Adobe certification (ACA), Microsoft certification, IBM certification etc. Further, the university proposes to offer two year Executive MBA program (evening) for in- service persons from academic year 2012-13.

1.2.3 Give the inventory of programs offered by the University for the Colleges to choose from.

Not applicable.

1.2.4 What programs are available for international students?

All programs of the University are available to the international students.

- a) 4 Year UG program in Engineering
- b) 5 Year UG+PG programs in Engineering
- c) 5 Year UG in Engineering +PG in Management
- d) 3 Year PG Program in Computer Applications
- e) 2 Year PG programs in Engineering and Technology
- f) 2 Year PG program in Management
- g) 4 Year UG program in Commerce
- h) 3 Year UG Program in Management
- i) 3 Year UG program in Hotel management
- j) 1 Semester Technology Oriented Certificate Courses
- k) Doctoral Programs
- l) One year Diploma in Human Capital Management
- m) Six months Certificate Program in Spoken English
- n) Six months Certificate Program in Soft Skills

1.2.5 Does the university provide twinning programs? Give details

The university signed 30 MOUs with universities in USA, UK, Australia, Rumania, Netherlands and Ireland to offer twinning programs. The twinning programs are:

- a) Semester abroad
 - b) study tour
 - c) student exchange
 - d) abroad internship
- 2+2 program, 3+1 program, 3+1+1 program. M.Tech program leading to Ph.D. The list of the partner universities:

UNITED STATES OF AMERICA

1. State University of New York, (SUNY-B) Binghamton New York, USA
2. Indian State University, Terre Haute, USA.

3. University of New Orients, USA
4. University of Massachusetts, Lowell USA
5. Jackson State University, Mississippi, USA
6. St Louise University, USA
7. San Hose State University, California, USA (in pipe line)
8. Rutgers State University, New Jersey, USA
9. Michigan State University, USA
10. University of Cinnacnnati, USA
11. DeVry University, USA
12. California State University, USA
13. Virginia Tech University, USA
14. San Diego University, USA

UNITED KINGDOM

1. University of Plymouth, Drake Circus, Plymouth
2. The Robert Gordon University, School hill, Aberdeen, United Kingdom
3. University of Reading, UK
4. Anglia Ruskin University (in pipe line), Cambridge Campus, East Road, Chelmsford
5. King's college of London, United Kingdom
6. Glasgow Caledonia University, Scotland, UK

AUSTRALIA

Latrobe University, Bundoora Campus

CHINA

1. Dallian Institute of Technology, Dallian
2. Shanghai University, Shanghai

THE NETHERLANDS

HANZE UNIVERSITY, DA Groningen, Hanzehogoes school
Groningen, Netherlands

POLAND

Szewalski Institute of Fluidflow Machinery, Poland

ARGENTINA

University of Argentina, UADE

SRILANKA

South Eastern University of Sri Lanka, Oluvil, Sri Lanka

ROMANIA

Technical University of Cluj Napoka, Romania

ITALY

University of Cossino, Italy

IRELAND

National college of Ireland, Dublin, Ireland

1.2.6 Does the institution offer any self-financing programs in the institution? If yes, list them.

All programs offered by the university are self financed programs. No government aid is available for any of the programs being offered by the university.

1.2.7 What procedure is adopted to extend additional programs of studies to affiliated institutions?

The university has no affiliated colleges.

1.2.8 Does the institution follow Annual System, Semester System, Trimester System and Choice Based Credit System (CBCS)?

The university is now offering choice based semester system. All the students have to get fixed number of credits for award of a degree. Students can choose courses according to their specialization and need while meeting the mandatory base course requirements.

1.2.9 Does the institution provide flexibility to pursue the program with reference to the time frame (flexible time for completion)?

The university offers several flexible options for students at both Undergraduate (B.Tech) and Postgraduate (M.Tech, MBA and MCA) levels.

These flexibilities are unique in nature. Some of the flexibilities offered are:

1. Change of Branch
2. Deceleration
3. Credit Transfer
4. Elective course
5. Integrated program
6. Degree with specialization
7. Major and Minor degree
8. Repeating a course
9. Over loading
10. Withdrawal and substitution of course

Students have the flexibility to complete any program within double the time of minimum period stipulated for completing such programs.

1.2.10 Does the institution has any provision for slow and disadvantaged learners? If yes for what courses?

The university has a provision for slow and disadvantaged learners for completing the program at their convenient pace in all the courses offered. Such students can complete the programs at a slow pace by choosing less number of courses in a semester and balance courses during summer term/evening courses and still be able to complete the program within the stipulated minimum period of study. Remedial classes are also conducted to support slow learners.

1.2.11 How does the institution identify slow and advanced learners? How are the advanced learners facilitated to meet the challenges?

The faculty while delivering courses identify the slow and advanced learners based on the spontaneity and accuracy with which lab experiments, tutorials, home assignments are completed. The slow and advanced students are tracked through their performance in internal evaluation. Students who perform in the more intricate topics is noted while undertaking the evaluation components. The attendance of students is also taken as a measure of learning. Advanced learners are encouraged by involving them in various committees both at department and university level. They are entrusted with leadership for organizing various events; they are also encouraged and motivated to participate in innovative research and publications. The slow learners are counseled to opt for slow pace of learning. Additional tutorials are also arranged to help slow learners to overcome their inadequacies.

1.2.12 Does the institution provide flexibility to the students to move from one discipline to another? Give details.

The university provides flexibility to move from one discipline to other after completing the first year of UG programs for which they have enrolled. All students who have no backlogs and have a CGPA of more than 8.0 are allowed to opt for a branch of their choice. A maximum of 5% of the seats can be added to any program over and above the approved intake. The approval for change of branch is undertaken strictly on merit basis. The details of the students who moved from one discipline to another over the last two years are:

Academic Year	No. of Students	Branch	
		From	To
2009-10	4	CSE	ECE
	1	ECE	ECM
	5	ECM	EEE
	1	EEE	CSE
	8	EEE	ECE
	1	EEE	ECM
Total		20	
2010-11	2	CE	ECE
	7	CSE	ECE
	3	ECE	CSE
	14	EEE	ECE
	1	EEE	CSE
	3	ME	ECE
	1	ME	CSE
Total		31	

1.2.13 Does the institution provide facilities for credit transfer, if the students migrate from one institution to another institution in or outside the country?

The university has the system of credit transfer from other UGC recognized universities. Any student who seeks admission into the university must apply with his/her marks memos and syllabus of the previous university.

A committee constituted by Vice Chancellor decides credit mapping after going through and comparing the syllabus related to the courses and make necessary recommendations to academic council. This transfer is applicable only up to the second semester of 2nd year. So far no credit transfers were affected with the credits obtained outside the country. The details of the credit transfers from other universities within the country are

Academic Year	Number of students
2010-11	1
2011-12	4

1.2.14 Does the institution provide?

- a) Core options**
- b) Elective options**
- c) Enrichment courses?**

The university considers core and elective options. The electives include both discipline specific and open electives that are offered across the university. Core subjects include courses related to discipline, basic sciences, and basic engineering. Both the core and elective options that fall in the same line of knowledge are arranged in a sequence of enrichment and the related elective options are delivered in a sequence so as to ensure knowledge enhancement.

The details of the core, elective and enrichment options are:

S.No	Subject Component	Percentage
1	Basic Sciences	15
2.	Humanities	09
2	Engineering Sciences	15
3	Core courses in engineering	46
4	Electives	15
Total		100

1.2.15 Does the institution provide the flexibility of combining the conventional and distance mode of education for students to make use of the combination of courses they are interested in?

The university has designed a policy on the flexibility of combining conventional and distance mode of education for students to make use of the combination of courses wherever they are interested.

1.3 Feedback on curriculum

1.3.1 How does the University obtain feedback from different Stake holders that includes students, Alumni, Employer, Community, Academic Peers, Industry and Parents

The procedure for obtaining the feedback from the stakeholders is:

Students

The curriculum of each of the programs is made available online in the university website. Students are furnished with a copy of the curriculum. University obtains feedback from students at the end of every semester in a standard format.

Alumni

An email is sent to all alumni for their feedback through university website. Feedback from the alumni is also taken in a standard feedback form once in a year during the annual day celebrations and during the alumni meets

or after delivering guest lectures. Alumni Cell In-charge coordinates this activity and sends the feedback report to HOD concerned.

Employers/Industry

Feedback on curriculum from several employers of the students is taken either through circulation of the same or when the industry personnel visit university for placements, or after the guest lectures or after conducting international conferences or workshops. The **Dean (Industry University Linkages)** coordinates this activity and feedback report is sent to HOD concerned for further processing.

Community

A survey is conducted in the neighboring rural areas to identify their needs by the In-Charge Extension Activities who coordinates the survey and the results are sent to the HOD concerned.

Parents

Parent meets are also conducted by the respective departments once in a year and the feedback on curriculum from the parents is taken. Whenever parents visit the departments feedback on curriculum is obtained.

Academic Peers

The university obtains feedback on the curriculum from identified academic peers representing institutions of national and international repute. Further, feedback is obtained from eminent academicians who are on the Boards of Studies and Academic Council.

1.3.2 How are the feedbacks used for significant changes in the Curriculum?

HOD compiles the list of changes that must be brought into the curriculum based on the feedback of the students, alumni, employer, academic peers, industry, parents and community. The same is discussed in the Department Curriculum Committee (DCC) meetings. The DCC considers the recommendations of the University Curriculum Committee (UCC) before placing them in the department BOS. The recommendations of BOS are placed before the Academic Council for approval. All proposed new programs are placed before the Board Of Management (BOM) for approval.

1.3.3 Which courses had major syllabus revision during the last five Years? (With change in title and content)

After transition from autonomous college to deemed university a major review of syllabi and curriculum of various programs was undertaken keeping in mind the two basic concepts ‘science as basic foundation’ and ‘competency based delivery’.

1.4 Curriculum update

1.4.1 Does the institution refer UGC/National/International models while updating curricula?

The university has referred to various models that are recommended by UGC, AICTE, ABET and other institutions in India and abroad before designing a model for updating the curriculum.

1.4.2 What are the interdisciplinary courses introduced during the last five years?

The interdisciplinary courses at the UG level of Engineering programs are introduced as open electives such as: software engineering, database management system, fundamentals of IT, circuit theory, electronic devices and circuits, control systems, thermodynamics, operations research, strength of materials, robotics, Financial engineering, principles of management, perspectives management, materials management, operations management etc.

1.4.3 How are the existing courses modified to meet the emerging needs?

The faculty continuously monitors the trends and emerging needs of the society through study of advances in technology, national priorities, salient features of 5 year national plan etc. The emerging technological needs are also identified through feedbacks taken from industry. The emerging needs are discussed in BOS and changes are effected by proposing either the new programs/courses or making changes to the existing programs.

1.4.4 What value added courses are introduced which would

Develop skills

Offer career training

Promote community orientation?

The design of curriculum for each of the programs takes into account the value addition through development of skills, career and community orientation.

Development of skills

Three courses are included in UG programs related to soft skills that are ensure development of skills which include Quantitative Analysis, Logical Reasoning, Problem Solving ability, Verbal and Non Verbal Communication, Group Discussions, Team Work, Presentation skills etc.

Career Training

Sixty percent of the courses have lab components and all the labs are conducted using tools that are similar to the industry. Certificate courses which are industry focused and directed towards skills and career development are offered.

Community orientation

Ecology and Environment is introduced as a compulsory course for all the programs to create awareness about the environment and its impact on the human life. Courses like service learning, social insurance, social transformation, low cost nutrition are identified to cater to the needs of neighboring rural areas.

1.4.5 Does the institution focus on multi skill development in its programs? If yes, illustrate.

The institution focuses on multi skill development by

1. Offering 3 courses related to soft skills (Quantitative Analysis, Logical Reasoning, Problem Solving, Verbal and Non Verbal Communication, etc.),
2. Designing labs that encourage using tools that are industry focused.
The lab components are designed in such a way that emphasis is laid

on Sensors, Data Acquisition, and Analog to Digital Conversion, Analysis and Report Generation, Modern Computer Aided Studies, etc.

3. Offering courses in Communication Skills, Technical Skills, Analytical Skills, Entrepreneurial Skills and Problem Solving through case studies etc.
4. Conducting certificate courses that focus on programming, administration, design, development etc.

1.4.6 What thrust is given to ‘Information Communication Technology’ in the curriculum for equipping the students for global demands?

All the faculty use electronic aids such as LCD, PPT, Multimedia etc for delivering lecture topics in the Teaching Learning process. Computers are used for delivering topics through methods such as Animation, Simulation, 2D/3D Graphics, delivering theory through demo using a tool etc. Students use software for self-learning courses such as C, C++, OOAD, DBMS, and JAVA. Some of the faculty is engaged in developing specialized software for Animations, Simulations, Architectures, Flow Diagrams, Mimics, Video recording of the lectures by senior professors and put to use whenever there is a need. Video conferencing as a tool of knowledge dissemination is in vogue.

1.4.7 How often is the curriculum pertaining to the affiliated institutions updated and diversified?

Not applicable.

1.4.8 What were the initiatives to restructure the UG courses to make them socially relevant and / or job oriented?

Several steps are taken to restructure UG programs to make them socially relevant and job oriented. Some of the initiatives include:

1. Introduction of courses related to community development.
2. Sixty percent of the professional/core courses are identified with the lab component.
3. All labs are designed to be implemented using tools which are industry focused.
4. Laboratory experiments related to different domains are designed.
5. Offering Certificate courses which are completely industry focused.
6. Three courses related to skill development are included in the UG curriculum.
7. Two mini projects are included in the UG curriculum that gives total exposure to application skills.
8. Practice oriented courses are introduced to help students work as interns in the industry.
9. Two months industrial training in the summer, between 2nd and 3rd years of the UG program.
10. Placement training in the summer after 3rd Year.
11. Technology and industry focused elective specialization streams are introduced
12. Courses with social relevance such as Energy and Society, Ecology and Environment are introduced as compulsory courses.

1.5 Best Practices in Curricular Aspects

1.5.1 What are the quality sustenance and quality enhancement measures undertaken by the institution using the last five years in curricular aspects with reference to curricular design and development / academic flexibility / feedback from stake holders / curriculum update?

The following are the quality sustenance and enhancement measures undertaken by the university in relation to curricular aspects.

Curricular Design and Development

1. Washington Accord is used as the basis for designing various programs.
2. Periodic restructuring and updating of courses to match global standards
3. Lab elements are blended into theory courses to ensure that theory and practice go together.
4. Discipline electives are offered in streams to make students specialize in their chosen areas
5. Open electives are offered to implement inter-discipline approach
6. Cafeteria approach for diversification to enhance employability of graduates.
7. Promotion of science education
8. A hybrid of semester and choice based credit system is adopted
9. The curriculum design and development is mostly based on the feedback and the emerging needs of the society
10. Multi skill development with stress on communication skills.
11. Additional emphasis on ICT component in upgrading content and transaction of curriculum at different levels.
12. E-learning sites are maintained and updated by all the faculty. Course material and other related information is made available to the students through these sites.

1.6 For Re-accreditation

1.6.1 What were the evaluative observations made under Curricular Aspects in the previous assessment report and how have they been acted upon?

Not applicable.

1.6.2 What are the other quality sustenance and enhancement measures undertaken by the institution since the previous assessment and accreditation with regard to curricular Aspects?

Not Applicable

2.0 Teaching, Learning and Evaluation

2.1 Admission Process and Student Profile

2.1.1 How does the institution ensure wide publicity and transparency in the admission process?

The university is offering a wide range of programs covering Certificate, Diploma, UG, PG and Doctoral, programs. The publicity to create awareness about university and its academic activities is achieved through the following Processes:

1. The programs for which admissions are being made along with intake are posted on the website.
2. Nationwide campaigns about university and its programs are organized. The institutional campaign includes the audio, video, WEB, TV Channels, media and print. The reservation policy of the university is also clearly stated in these campaigns.
3. Awareness campaigns for parents are organized at different cities and the education systems at university are explained to them.
4. The entire documentation related to admissions that include prospectus, hand outs, leaflets, fee details, application forms, etc. are developed and distributed for circulation.
5. The university conducts several student based events like cricket tournament in collaboration with media partner, knowledge test etc. Students from different parts of the country participate, thus showcasing the salient features of the university to them. Events related to sports, games, project exhibitions, paper presentations, technical festivals, cultural festivals etc are organized.
6. The reservation policy details of university are published in the news papers to promote awareness among students and parents. The reservation policy of Government of India is implemented. Awareness programs are organized in different countries highlighting the programs offered, infrastructural facilities, and the available human resources

The transparency of admission process is ensured through the following Processes:

- 1 The availability of seats in different categories and reservations, fee payable and concessions offered to students of each of the category are posted on the website.
- 2 Rules and regulations relating to eligibility and the admission procedures related to various programs are developed and the same are approved by the academic council. The approved rules and regulations are uploaded on to university website and are followed judiciously.
- 3 Distribution of seats to accommodate students from different competitive examinations (**KLUEEE, JEE, IEE, EMCET**), and in terms of **Women/Men** and in terms of different reservation quotas (**OBC/SC/ST/Differently abled**) etc. are posted on the web.
- 4 The transparency of admission process is further ensured by way of conducting the foolproof KLUEEE competitive examination. The rank lists of students who have applied are posted on university website.
- 5 The availability of seats in different categories are posted on the WEB and on the bulletin boards installed at the admission centers during the time of admissions.
- 6 In the case of doctoral programs, the research areas, list of eligible supervisors, availability of vacancies with the supervisors, details of scholarships/fee concessions extended to the students and the full time scholars are posted on the website.
- 7 The list of selected candidates along with their rank and selection criteria for all the programs is posted on the website as soon as admissions are completed.

2.1.2 How are the students selected for admission to the following courses?

a) General

b) Professional

c) Vocational

The university at present is offering professional programs like Certificate, Diploma, UG, PG and Doctoral degrees in the areas of engineering, management and commerce.

Separate admission processes are used for admitting students into different programs. The admission procedures are posted on the university website for the benefit of all the students. Admission into Certificate and Diploma programs is based on the merit of the qualifying examination.

Individual admission processes are used for admitting students into UG programs from different streams that include JEE, AIEEE, EAMCET, KLU EEE, Foreign students; Inter University Transfers and Lateral Entry. A separate admission process for PG programs is followed to admit students based on the competitive examination GATE, PGCET, ICET and also a separate entrance examination conducted by university.

A defined admission process is followed to admit students into Doctoral Programs. This includes admission test and interview. All types of admissions into university are undertaken by using eligibility criteria for screening the applications followed by a written test, counseling and interview. However the

applicants under special category, rank holders in JEE, AIEEE and EAMCET are not administered with any written examination.

2.1.3 What strategies are adopted to create access to

- a) Disadvantaged community**
- b) Women**
- c) Differently - abled**
- d) Economically weaker sections of the Society**
- e) Athletes and sports persons**

- a) Reservation quotas have been fixed for SC, ST, and OBC for every category of students (JEE, AIEEE, EAMCET, KLUEEE). In addition, the percentages of quotas are also maintained on the overall admission basis in the case of UG admissions.

Reservation quotas have also been fixed for SC, ST, and OBC for every category of PG students (GATE, PGSET, ICET and CAT). In addition the percentages of quotas are also maintained on the overall admission basis in case of PG admissions.

Fee concessions are being extended to all the SC/ST students at UG level.

- b) One-third of the seats are earmarked for women in every category of admission at all levels of programs.
- c) Three percent of the seats in all categories are reserved for differently abled students on horizontal basis.
- d) No quotas are fixed based on the economic status of the students as on date. However students who get admitted and are economically weak are given fee waivers.
- e) Two percent of the seats are reserved for admitting the UG and PG students in respect of the candidates having proficiency in NCC, Sports, Games and Extracurricular activities.

2.1.4 How many applications were received and how many were granted admissions for the following courses?

Applications No. Admitted No.

Professional courses

General courses

Vocational courses

Post-graduate courses

Undergraduate courses

PhD Programs

For all courses

The statistics of admission carried for the Year 2009-2010, 2010-2011, 2011-2012 in UG Programs, PG programs and Doctoral Programs, are shown in the table below:

Serial Number	Level of the program	Year	Number of applications received	Number of admissions made
1	UG	2009-2010	5379	1866
	PG		397	297
	PhD		363	72
	All		6139	2235
2	UG	2010-2011	11490	2032
	PG		1108	458
	PhD		307	76
	All		12598	2566
3	UG	2011-2012	14813	2224
	PG		723	293
	PhD		232	In progress
	All		15536	2517

2.2 Catering to Diverse Needs

2.2.1 Is there a provision for assessing student's knowledge / needs and skills before the commencement of the teaching program?

The university is assessing the students at present based on the

performance in the KLUEEE. Counseling is done during the admission process and also based on the performance at the qualifying examinations. The knowledge levels of the students in the qualifying courses, needs of the students and the skill levels of the students are assessed and the same are recorded and used for bridging the gap.

2.2.2 Does the institution provide bridge courses to the educationally-disadvantaged students?

Educationally disadvantaged students are identified through an assessment procedure like taking the parameters of performance of the qualifying examination and the admission test. The institution conducts bridge courses for those students who are not having adequate knowledge in some subject areas.

The bridge courses are delivered either before the commencement of the program or in parallel to the program subject to course based relationships or during the evening hours or delivered in the vacations. The university is conducting 13 bridge courses such as basics of accounting, elementary mathematics, fundamentals of computes, etc.

2.2.3 What programs are offered to the students from the disadvantaged communities?

The following programs are offered to the students of disadvantaged communities.

The University is currently offering the following programs:

Program Number	Name of the Program	Field of study
List of UG Programs		
1.	B.Tech (Bio Tech)	Bio Technology
2.	B.Tech (CIVIL)	Civil Engineering
3.	B.Tech (CSE)	Computer Science Engineering
4.	B.Tech (ECE)	Electronics and Communication Engineering
5.	B.Tech (EC)	Electronics and Computers
6.	B.Tech (EEE)	Electrical and Electronics and Engineering
7.	B.Tech (ME)	Mechanical Engineering
8.	BHM	Bachelor of Hotel Management
9.	BBA	Bachelor of Business Administration
10.	B.Com(Hons)	Accounting and Finance
List of PG Programs		
1.	M. Tech	Bio Technology
2.		Structural Engineering
3.		Computer Science and Engineering
4.		Computer Networks and Security
5.		Communication and radar System
6.		VLSI
7.		Embedded Systems
8.		Power Electronics and Drives
9.		Power Systems
10.		CAD-CAM
11.		Thermal Engineering
12.		Computer Integrated Manufacturing
13.	MBA	Business Administration
14.	MCA	Master of Computer Applications
List of Doctorial Programs		
1.	Ph.D	Bio Technology
2.		Civil Engineering
3.		Computer Science and Engineering
4.		Computer Science

Program Number	Name of the Program	Field of study
5.	Ph.D	Electronics and Communication Engineering
6.		Electronics and Computers
7.		Electrical and Electronics and Engineering
8.		Mechanical Engineering
9.		Physics
10.		Chemistry
11.		Mathematics
12.		English
13.		Management
14.		Commerce
15.		Communication and Soft Skills
16.		Nuclear Engineering

2.2.4 What specific strategies are adopted for facilitating

- a. Advanced students?**
- b. Slow learners?**

The students are recognized as slow or advanced learners through continuous evaluation process (Sessional tests, Quiz/Surprise tests etc.) and also based on the performance of the students after conducting comprehensive examinations based on CGPA/Backlogs.

Slow Learners

Slow UG level learners are counseled and corrective actions are taken in terms of the following:

1. To undertake special training outside the time table hours.
2. To work for more number of hours and solve more assignment questions
3. Group slow learners with advanced learners

Advanced Learners

Advanced UG students are allowed to register for courses like open

electives. The others having no pre requisites are offered during summer term subject to certain conditions. This will enable him to clear the courses in advance allowing him to concentrate more on career orientation and industrial exposure during final year. Such kind of advanced learners are encouraged in terms of the following:

1. Participation in in-house research activities
2. Solving more assignment questions to make them technically strong
3. Appointing them as student representatives at the department level committees to develop leadership skills
4. Encourage them for taking specialized training through certificate courses
5. Use them to help the slow learners especially during the conduct of tutorials which will enhance their communication abilities
6. Encourage them to prepare for competitive examinations like GATE, CAT, etc.

2.3 Teaching Learning Process

2.3.1 How does the institution plan and organize the teaching learning evaluation schedule into the total scheme? Does the University have an academic calendar? How is it prepared?

The university prepares academic calendar considering the following:

1. Ninety instructional days in each of the semester,
2. Timing of the evaluation components based on the design of the delivery system,
3. Policy of conducting class work on the day of evaluation components,
4. Holidays,
5. Phasing of the evaluation components both related to internal and external assessment with provisions for sufficient preparation by the students,

6. Non-overlapping of the regular and supplementary examinations and proper sequencing of the same considering all the students of different years of the programs,
7. Inclusion of events such as cultural festival, technical festival, conferences, workshops and dates of certificate course examinations.

Planning is done considering each and every calendar day accounting for minimum number of instructional and working days and examination days. The type of activity to be conducted is planned and mapped to the calendar day.

2.3.2 What are the courses which predominantly use the lecture method? Apart from classroom interactions, what are the other methods of learning experiences provided to students?

All the theory courses are taught predominantly by using lecture method. Further, teaching aids like LCD are used for interaction with students. The courses that are concept related, analytical, fundamental, theoretical, historical, mathematical, etc. are explained through simulations and animations, computer based 2D/3D graphics, case study method are predominantly adapted through class room and tutorial mode interactions.

In addition to the class room based learning experience, students are provided with practice based learning through laboratories, presentations by students, learning through video conferencing, workshops, group discussions, solving home assignments, practicing the concepts through tutorials, learning through development of mini projects and final year projects, learning through research surveys, self learning the advanced topics, learning through Computer Aided Software packages, learning on the Job through Practice School, Learning through Research etc. are being practiced.

2.3.3 How is 'learning' made student - centered? Give a list of the participatory learning activities adopted by the institution, which contribute to self-management of knowledge development and skill formation?

The learning is made student centric by way of using several active learning methods. Some of the participatory methods used for conducting student centered activities include seminars, group discussions, case based learning, multi group learning, tool based learning, question and answer sessions while a class is in progress or when a video conference is conducted, learning through student surveys, learning through development of mini and final year projects, learning through implementation of innovative ideas, on the job learning through finishing school and through assignments. Through these methods students self manage the knowledge and skill to be acquired.

2.3.4 What are the modern teaching aids used in classroom instruction? What are the other student learning experiences?

The faculty of the university uses many of the electronic aids for delivering the class room lectures. Some of the electronic aids being used include 2D/3D based graphics, power point presentations, simulations, online development through usage of remote servers and audio based presentations followed by q&a. A separate cell has been established to facilitate modern teaching aids and also to train entire faculty in using electronic aids.

Students have many other student-centered learning experiences that include seminars, group discussions, case-based learning, multi-group learning, tool-based learning, student surveys, learning through development

of mini and final year projects, learning through implementation of innovative ideas, on the job learning through finishing school and through e-learning.

2.3.5 Is there a practice of having tutorial classes for the students? If yes, for what courses?

The university has the practice of including tutorials. Tutorial is one component of the courses in addition to theory and practice components. Tutorial component is included into those courses where practicing is required to grasp complete meaning of various concepts taught in those courses. Tutorial problems are carefully designed to reflect the usage of the concepts. A faculty member is deputed for every 30 students in the class for conducting tutorials.

2.3.6 Is there a provision for counselors / mentors/ advisors for each class or group of students for academic and personal guidance? If yes, specify.

The university has the provision of nominating the faculty as counselors. A faculty counselor is allocated for every 20 students. The counselor counsels the students from the point of view of discipline, attendance, academic weakness, skill development, placement, professional participation, extension, development, etc. The counselor maintains most important data of the students in a counseling book and also enters the most important suggestions given to the students. The counseling book is reviewed once in 2 weeks by HOD and once in a month by DEAN (ACA).

2.3.7 How is the academic progress of each student monitored by the faculty?

Every faculty uses an attendance register in which the names of the students who are registered for the course are entered. The register has columns to enter the attendance and topics taught by the faculty on a particular day. There are also columns to record the performance of each student in each of the evaluation component. Looking at the attendance register, the gradual incremental performance of the students can be monitored and corrective actions can be taken. The educationally disadvantaged students are identified and the extra classes are also recorded in the same register. Separate registers are maintained for theory, lab and tutorials. The columns that are required to record the evaluation components related to the respective components are provided in the registers.

2.3.8 Give details of the course by sessions of work assigned and implemented in the tutorial session?

All the concepts that are taught in a course are chronologically ordered and a set of concepts are associated with a tutorial session. A tutorial is scheduled as and when its related concepts are delivered in the class room. A minimum of four tutorial problems are designed per tutorial session. The tutorial sessions are mapped to weekly time tables. Faculty are identified and assigned to tutorials much before the commencement of the tutorial. The faculty solves tutorial problems much before the commencement of the course. Faculty help the students to complete the tutorial problems, just by explaining the concepts related to a tutorial problem.

2.3.9 How do the students and faculty keep pace with the recent developments in the subjects?

The students and the faculty make literature survey related to the subjects being taught and learnt in a particular semester by using different search engines. The faculty also are attending conferences / seminars / workshops / guest lecturers that are related to the subjects being taught by them. The university conducts subject related workshops. The faculty and the students refer to the e-journals and journals related to their respective subjects.

2.3.10 Are there departmental libraries for the use of faculty and students? If yes, give details

Every department has its own departmental library. The latest editions of the text books, current issues of the journals, faculty research publications, term papers, reports related to research and development projects, previous question papers, etc. are stacked in the departmental library. All the students and the faculty are allowed an access to the library. Presently the university is having 10 departmental libraries with adequate number of titles, volumes, journals and e-journals.

2.3.11 On an average, how many students and faculty use the library per week?

The university has a central library and every department has its own local library. An average of 24 faculty members and 1326 students visit the central library every week. The faculty and the students mostly use net as the source for referring to the e-books and e-journals.

2.3.12 What are the initiatives taken to make optimum utilization of INFLIBNET/DELNET facility by the students and faculty?

The university is a subscribed member of DELNET. The following initiatives are taken to encourage the faculty and students to use DELNET optimally.

1. Access e-journals published by ACM, IEEE, and others
2. Borrowing books that are scarce and not readily available
3. Online Access to Union and other Catalogues.
4. Professional Training (Organizing Tutorials, Workshops, Lectures, Training Programs)
5. Online information on aspects related to library information

2.3.13 How does the library collect books and journals for all departments?

Librarian makes available the norms related to books and journals considering the student strength in each of the departments. Librarian also makes available information about the shortage of books and journals in comparison with the norms along with budget provision made for the department. Each department at the beginning of each of the semester makes a review of the courses that must be taught, text books and reference books that are prescribed, latest versions of the availability of books and determine the set of books and journals that must be procured and requisitions in the standard formats are made and sent to the Librarian. The Librarian pools these books publisher wise and initiates procurement process.

2.3.14 How does the library manage to cater to the needs of teachers and students with access to books, journals and timings?

The library is open from 7 am to 9 pm on all working days, 9 am to 4 pm

on holidays and from 7 am to 11 pm during examinations. The books are categorized as reference books and issue books. Reference books are not issued. Faculty and students may visit the library and read the books. Non reference books are issued to faculty and the students. Library cards are issued to the UG students (4 Cards), PG students (6 Cards), Doctoral students (8 Cards) and Faculty (8 Cards) using which the books can be borrowed. In addition, the central library has hosted series of e-books and e-journals of different collections on university file transfer programme (ftp) site and these books can be downloaded by students, scholars and faculty using the online access provision subject to security checks. The students, scholars and the faculty are also given online access to many of the digital libraries like IEEE explorer, ASM, Springer, Elsewear based on the user access control.

2.4 Teachers Quality

2.4.1 What is faculty strength of the university? How many positions are filled against the sanctioned strength? How many of them are from outside the state?

As on today the university has 78 Professors, 124 Associate professors and 336 Assistant professors totaling the strength to 538. All the positions have been filled as per AICTE norms. Out of the 538 faculty members 13 are from outside the state.

2.4.2 How are the members of the faculty selected? Does the University have the required number of qualified and competent teachers to handle all the courses for all departments? If not, how does the University cope with the requirements?

Recruitment of Faculty

The university determines the number of faculty to be recruited based on the existing strength of students and required strength as per AICTE/UGC norms as applicable. Advertisements for the recruitments are released in all the News papers across the country. Applications are received by mail or by email or by hand and also from job sites. The applicants who meet the minimum qualifications, experience, research, and other achievements required by a faculty to be in a cadre as per UGC minimum qualifications and wages related regulations are shortlisted. The applicants are interviewed by selection committees constituted as per UGC regulations and the recommendations of the selection committees are placed before the Board of Management for its approval.

The reservation criteria are also taken into account while recommending candidates for different positions. The BOM approves the selection of the candidates as recommended by the selection committee. The university has adequate number of qualified and experienced teachers to handle all the courses. The university makes sure that at least 2 to 3 faculty members are made available for each of the course included in the curriculum.

2.4.3 Does the University appoint substitutes/ additional faculty to teach existing and new programs? How many such appointments were made during the last year?

The university recruits faculty to maintain faculty student ratio of 1:15 for UG/PG (MBA, MCA) students and 1:12 for the PG programs in Engineering. The university also maintains a cadre ratio of 1:2:6. It always maintains less faculty student ratio and cadre ratio so that surplus manpower is maintained.

The university implements a recruitment strategy that involves selection of more members of faculty for the same course. Further the services of adjunct, visiting and part time faculty are used in addition to the services of full time faculty.

2.4.4 What is the student teacher ratio?

The faculty student ratio as on date: PG 1:14.20.

2.4.5 What percentage of the teachers has Ph. D. as the highest Qualification?

As on date the percentage of teachers having PhD qualification stands at 21.

2.4.6 What percentage of the teachers has M.Phil as the highest Qualification?

The percentage of teachers having M. Phil degree is **8.8** and M. Tech degree **52.7** as on date

2.4.7 What percentage of the teachers has completed UGC, NET and SLET exams?

As on date the university has 1% of the faculty having UGC-NET or SLET qualification. The faculty members with M.Tech qualification do not require passing of UGC- NET or SLET.

2.4.8 What efforts are made by the management to promote teacher Development? (eg: research grants, study leave, deputation to national/ international conferences/ seminars, in-service training, organizing national/ international conferences etc.)

Several efforts have been made which are outlined below:

1. Sanctioning in-house research grant to the faculty members to promote research activities.
2. Deputing staff by the management to attend national and international conferences.
3. Sanctioning study leave for faculty members who wish to improve their qualifications.
4. Organizing teacher training programs and workshops.
5. Organizing national and international conferences.

S.No	Teacher Development Method	Number of faculty developed	Amount spent in Rs.
1.	Research Grant by Management	---	95,11,988 (2010-11)
2.	Faculty sent on study Leave	23	---
3.	Faculty deputed to National and International Conferences and Seminars	363	---
4.	National and International conferences and Seminars conducted	144	---

2.4.9 What are the teaching innovations made during the last five years? How are innovations rewarded?

The following are the teaching innovations made during the last five years.

1.	Outcome based learning
2.	Competency based syllabus
3.	Teaching emerging technologies through specialization streams
4.	Teaching inter disciplinary subjects through open electives
5.	Introduction of intern based practice through finishing school
6.	Introduction of research components at UG level through term papers
7.	Active Learning Methods for course delivery
8.	Practice of emerging technologies through mini projects
9.	Research Groups association with Teaching Groups
10.	Teaching of selected subjects by foreign professors

The above mentioned innovations are reflecting on the systematic curriculum design, appropriate delivery systems and the best possible student performance.

2.4.10 Does the institution have representation of women among the staff? If yes, what percentage?

The university has excellent representation of women among the teaching and non teaching staff. Overall, the total percentage of women employees works out to **28.36%**.

2.4.11 List the faculty who has been recognized for excellence in teaching during the last five years?

It is a regular practice in the university to identify and encourage the faculty members for their excellence in teaching. The university has a well defined system covering parameters as given below:

1. Teaching:
 - a. Feedback - 25%
 - b. Results - 25%
2. Administration:
 - a. Attitude and commitment - 10%
 - b. Contribution to Dept. / Development - 10%
3. Consultancy - 15%
4. R & D - 15%

After evaluating all the faculty members based on the above mentioned criteria, the faculty are identified for their excellence in teaching and rewarded suitably every year.

2.4.12 List the faculty who have undergone staff development programs (Refreshing Courses, Orientation Programs, Staff Training) conducted by University and other institutions during the last five years?

The statistics on number of faculty members who have undergone staff development programs for the last 5 years is given below.

Course	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Refresher	1	3	8	11	6	29
Orientation	7	10	12	38	71	138
Seminars/ Workshops	45	66	83	86	83	363
Total	53	79	103	135	160	530

2.4.13 What percentage of the faculty served as resource persons in Workshops / Seminars / Conferences during the last five years? (Average)

On an average 10 percent of faculty acted as resource persons in workshops / seminars and conferences during the last 5 years.

2.4.14 What percentage of teaching staff participated in workshops/seminars/conferences during last 5 Years

On an average 26.6 percent of faculty participated in the workshops, seminars and conferences in the last 5 years.

2.4.15 Has the faculty been introduced and trained in the use of

- a) Computers**
- b) Internet**
- c) Information Technology**
- d) Audio Visual Aids**
- e) Computer Aided Packages**

All the faculty members of the university have been trained in the use of computers, internet, information technology, audio visual aids and computer based packages.

2.4.16 Does the university have an Academic Staff College? If yes, give the details of programs it offers.

Faculty being the single most critical factor responsible for the overall quality and excellence in higher education. It's a matter of concern that a large number of faculty members are untrained in the teaching learning process. Hence there is a need to train them in the modern methods of teaching, learning pedagogy. Presently, the faculty members of the university are being trained through in-house teacher training programs in which outside experts are also involved. To formalize this activity, the university is planning to start faculty development centre for promoting the faculty talent from the academic year 2012-2013.

2.5 Evaluation Process and Reforms

2.5.1 Does the university evaluate teachers on teaching and research Performance? How does the evaluation help in the improvement of Teaching and Research?

The university evaluates the teaching and research performance based on the performance appraisals taken once in a semester. It has designed an

appropriate performance appraisal system based on the UGC guidelines and norms. The performance of the faculty is linked to various awards and incentives. The evaluation helped in terms of the following:

1. Proper workload distribution of the faculty
2. Effective time utilization
3. Target based working
4. Continuous updating the subject knowledge
5. Taking the guidance of the seniors
6. Increase in the research publications
7. Increase in the sponsored research projects and consultancy
8. Increase in the student satisfaction
9. Increase in participation in conferences, workshops and seminars.

2.5.2 Has the institution introduced evaluation of the teachers by the students? If yes, how is the feedback analyzed and implemented for the improvement of Teaching and Learning?

Students evaluate faculty who are assigned to teach courses to them. The feedback of the student is taken based on several parameters that include punctuality, coverage, citing live examples, communication, utilization of time, etc.

The feedback taken from all the students is plotted into histograms showing each of the parameters. The histograms clearly show the weaknesses of the faculty in a particular perspective related to teaching. The faculty is shown the analysis of feedback and the teacher is counseled by the HOD. The faculty is attached to a senior faculty if necessary for close monitoring and improvement. The teachers who are weak in certain aspects are deputed to subject workshops related to the courses that the faculty is teaching. These

faculty are also requested to deliver seminars in Faculty Orientation Programs.

2.5.3 Does the institution promote self-appraisal of teachers? If yes, how often?

The institution introduced self appraisal of the teachers. The self appraisal is taken once in a semester. The self appraisals are designed as per the guidelines provided by UGC.

2.5.4 Is the appraisal by the teachers reviewed by the head of the Institution and used to improve the quality of teaching?

All the self appraisals of the teachers are reviewed by HOD followed by DEAN (F&SA) and VC. The appraisals are used for improving the quality of teaching by the faculty in terms of the following:

1. Improvement in systematic and sequenced delivery of the courses
2. Improvement in the designing of assignments, question papers, laboratory experiments.
3. Effective teaching through implementation of active learning
4. Searching and developing examples which are related to real life
5. Teaching by using electronic aids
6. Teaching by using Information Communication Technologies (ICT)
7. Participating in the subject workshops thereby improving the intricacies of the subject
8. Taking guidance from the senior faculty thereby improving the teaching learning processes
9. Delivering seminars in the orientation programs thereby improving the communication.

2.5.5 Does the institution have an academic audit of the department? If yes, illustrate.

The university has academic audit as a part of academic system. It is conducted at different levels containing different audit elements. The academic auditing is done by a professor of respective department once in 15 days or at the end of completing a particular phase of the academic system.

1. Auditing program design document
 - a. Sequence of courses offered in a program
 - b. Proper mapping of competencies to the syllabus
 - c. Sequencing of syllabus
 - d. Elective mapping to the streams of elective and verification of the same to the emerging needs
 - e. Proper loading of practice with theory and tutorials
2. Auditing the preparation for course delivery
 - a. Inclusion of all the elements in the course handout
 - b. Inclusion of all the elements in the lab manual
 - c. Proper break-up of the syllabus into sub topics
 - d. Mapping of topic list to active learning mechanisms
 - e. Mapping topic list to tutorials and conducting lab experiments
 - f. Mapping of the topic list to the calendar
 - g. Mapping topic list to the evaluation components
3. Auditing during course delivery
 - a. Coverage of the syllabus as per lesson plan
 - b. Tracking the weak students and conducting special classes
 - c. Attendance registers for proper recording of attendance, topic delivery, marks obtained in the evaluation components, marking of weak students
 - d. Conducting of the evaluation components as per schedule
 - e. Solution to the question papers

- f. Proper checking of the answer sheets
 - g. Verification of the answer sheets by the students and making corrections to the checking
 - h. Conduct of course coordinators meeting
 - i. Verification of the internal marks list with the attendance registers
 - j. Quality of question papers
 - k. Timely submission of verified marks lists to the controller of examinations
4. After delivery of the course
 - a. Attendance verification and updation
 - b. Detention list in line with the attendance registers
 - c. Consolidation of internal marks and verification of the same
 - d. Submitting the consolidated internal marks to the controller of examinations
 - e. Proper coverage of syllabus.
 5. During the conduct of comprehensive examination
 - a. Proper student list
 - b. Seating arrangement
 - c. Allocation of the invigilators
 - d. Conduct of the examination
 6. After the evaluation of comprehensive evaluation
 - a. Consolidating the internal and external marks
 - b. Determining the GAPS and DIPS in the histogram
 - c. Grade marking
 - d. Grading and certification
 - e. Performance evaluation of the students as per GPA obtained by the students in a course

2.5.6 Based on the recommendations of academic audit what specific measures have been taken by the institution to improve the teaching, learning and evaluation?

Every time audit is conducted, the corrective actions necessary have been recorded and verification of the same is done to check whether corrective actions are taken. The following are the major corrective actions taken for improving teaching, learning and evaluation

1. Guiding the faculty in the proper design of the course
1. Guiding the faculty in the proper design of question papers
2. Making the faculty to choose proper delivery method
3. Verification of internal evaluation and tabulation
4. Modification of course handouts and lab manuals
5. Counseling the faculty for proper coverage of the course
6. Submission of internal evaluation marks to controller of examinations within one week from the date of conducting the evaluation component.
7. Associating the research group head with course coordinator
8. Attaching the junior faculty to a senior faculty who counsels and guides the faculty
9. Conducting subject workshops in the summer time
10. Making the faculty to develop the solutions to the question papers
11. Guiding the faculty in the grading system

2.5.7 How does the institution monitor the performance of the students? (Annual/ Semester exam, Trimester Exam, Midterm Exam, Continuous assessment, Final exam, etc.)

The university evaluates the performance of the students during course delivery and after final evaluation of comprehensive examinations conducted at the end of semester. Every faculty member monitors the performance of

students by regular verification of the attendance register for attendance and the marks obtained by the student in evaluation. A faculty member is assigned the role of a counselor for every 20 students. The counselor takes special care of students who are slow in subject areas.

2.5.8 Are the evaluation methods communicated to the students at the beginning of the year? If yes, how?

The evaluation methods are communicated to the students at the beginning of the year through student handbooks.

2.5.9 What is the method of evaluation followed? (Central, Door, Double evaluation, etc.)

The university has adapted Central Method of Evaluation for UG program (single evaluation). Same question in all the answer sheets of the same course is evaluated by the same teacher thus ensuring uniformity and eliminating the bias in evaluating the scripts of the same course by various examiners. Presently, in the case of PG, Door Based Double Valuation Method is used. In the case of Ph.D while adjudication is done by three examiners, the scripts of Pre-Ph.D examination are evaluated using Door Based Double Valuation Method.

2.5.10 What is the mechanism for redressal of grievances regarding evaluation?

The university has implemented several methods to redress the grievances of the students regarding the evaluation. In the case of internal evaluation the checking pattern and the solutions to the questions are shown to the students.

The students are also provided with the scheme of evaluation of the answers. The answer scripts are distributed to the students for personal verification. Corrections, if any, required are carried out by the teacher.

In the case of comprehensive examination, students are allowed to have personal verification of the answer sheets. If a student is not satisfied, he/she is allowed for revaluation through Double Valuation Method by paying the requisite fee. The students are awarded with highest marks obtained either in initial evaluation or revaluation.

2.5.11 When are the examination results declared? Give the time frame

The internal examination marks are declared within one week from the date of conducting the last examination. Comprehensive Examination results and the grading are declared within fifteen days from the date of last examination.

2.5.12 Does the institution communicate to the parents regarding the evaluation outcome?

All the examination results are posted on university website. Parents have the access to the results. If the performance in the internal examinations is found to be weak, the same is informed to the parents through SMS and also through letters indicating the performance. At times the faculty counselor attached to the student makes a telephone call to the parents when the performance of the student is found to be consistently low.

2.5.13 How long has the current system of evaluation been in practice?

The current system of evaluation has been in practice since three years

2.5.14 Has the institution developed any evaluation reforms?

The institution has developed many evaluation reforms. Following are the evaluation reforms introduced by the university.

1. Same question is checked by the same teacher considering all the answer sheets related to the same course.
2. Hybrid Grading System that includes the least and the highest grades earned and the Intermittent and Relative Grades.
3. Evaluating the students in multiple dimensions which include objective assessment through surprise test, problem solving through assignment test, subject depth evaluation through sessional tests, application knowledge through lab tests, comprehensive knowledge through Comprehensive Examination.
4. Revaluation using Double Valuation Method

2.5.15 What are the reforms made with reference to evaluation? (Double evaluation, Open book examination, Question Bank, Moderation, Internal assessment)

The university has implemented Single Centralized Evaluation System in respect of UG, Double Evaluation in respect of PG and Triple Evaluation in respect of Ph.D. The university proposed to implement the process of moderation. The bias involved in evaluating several sets of answer sheets of the same course by different examiners is eliminated by making one teacher evaluate one question of the same course. The university is in the process of developing a question paper bank in respect of each of the courses. The question papers will be encrypted and can only be opened (decrypted) just five minutes before the commencement of the examination.

2.5.16 Are evaluation procedures transparent, If yes, how? Illustrate the different stages of evaluation till the declaration of results?

Evaluation procedures of the university are transparent, comprising evaluation of both Internal and Comprehensive Examinations.

1. The evaluation scheme and methods are made known to the students at the beginning of the year by distributing the handbooks to the students
2. The allocation of marks for every part of the question is shown in the question paper itself.
3. The scheme of evaluation of various parts of the answers to different questions is prepared and the same is made known to the students after the examination is over and before distributing the answer sheets in the case of internal evaluation components.
4. The answer sheets related to internal evaluation are distributed in the class and all the corrections required are carried out before the marks are finalized. Any issue related to checking must be raised within one week.
5. The basis of decisions related to grading is recorded by the course coordinator and grading is carried and the same is scrutinized by HOD and approved by Results Committee.
6. The grades awarded are displayed on the notice boards and on the university website.
7. In the case of comprehensive examination, the students can opt for personal verification of their answer sheets at which time the scheme of valuation and the basis of grading are provided.
8. The students can apply for revaluation if the student is not satisfied with the comprehensive valuation.
9. If the student is not satisfied with the grade, verification of the same is done and if correction is required, the same is carried out.

2.5.17 Does the University have continuous assessment? If yes, please specify the weightage.

The university has continuous assessment system for UG and PG programs as part of the internal evaluation system.

1. 40% weightage is given to internal evaluation while the external comprehensive evaluation has a weightage of 60%.
2. Continuous evaluation is carried in terms of assignment tests, surprise tests, sessional tests, home assignments, Viva Voce. Lab examination is conducted at the end of the semester.
3. Each evaluation component is given a weightage and is carried out several times at different stages of course coverage and the average is considered as the performance of the student.
4. Internal performance of a student is evaluated considering the performance of the students in all the components.
5. Every evaluation is shown to the students and the same is corrected, if any valid questions are raised.

Continuous assessment is done through progress reports submitted by Ph.D scholars to assess the progress made in the research and then it is decided whether the scholar should continue doing the research or terminate the program. The decisions are taken by VC with the recommendation from Doctoral Research Committee.

2.5.18 What is the scheme/system of examination in practice for the affiliated institutions?

Not applicable.

2.5.19 Give details of the number of question papers set, examinations conducted per year.

Two sets of question papers are set for each course and the examinations for all courses are conducted twice in a semester i.e., main and supplementary/examinations.

2.5.20 Mention the number of malpractice cases reported and how they are dealt with

During the academic year 2010-11, 33 cases of examination malpractice were reported.

Based on the complaints of examination malpractice reported by the invigilators, the VC constitutes an Examination Malpractice Committee which would enquire into the complaint and submit its report and recommendation as to whether a malpractice has been committed or not and if malpractice is proved, suitable punishment, as provided in the scale of punishments approved by the Academic Council, is recommended and the final decision as to appropriate punishment is taken by the VC.

2.5.21 Does the university provide the photocopy of answer scripts to students? If yes, give details of the practice.

The university gives the students the original checked answer book in the case of internal evaluation for their verification and in the case of comprehensive examination the student is allowed to personally verify the answer book and then decide whether a re-evaluation is required. This provision is available for UG programs only. In the case of PG programs a student is allowed for a request for re-evaluation. In the Ph.D programs no personal verification or issuing a photocopy is allowed.

2.5.22 Give details regarding the computerization of the examination system?

The university has computerized the following aspects of the examination system

1. Results tabulation
2. Results declaration
3. Examination registrations
4. Preparation of examination nominal rolls
5. Printing of the marks memo
6. Printing the Grade Sheets
7. Capturing and maintaining Examination fee payment
8. Publishing the examination results on the website
9. Publishing the examination schedules on the website

All the remaining functions of the examination system are being computerized.

2.6 Best Practices in Teaching- Learning and Evaluation

2.6.1 What innovations / best practices are followed by the college with regards to teaching, learning and evaluation? With reference to admission process, student profile / catering to diverse needs / teaching-learning process / teacher quality / evaluation process and reforms or any other quality initiatives.

The university has implemented the following innovative/best practices in respect to student admission, student profile, catering to diverse needs, teaching learning process, and teacher quality.

1. Admissions based on nationally reputed competitive examination tests that include JEE, AIEEE, EAMCET and KLUEEE
2. A complete transparent process of admissions thorough information provided right through the prospectus to the web posting
3. The admissions are made ensuring proper representation to women, socially and economically weaker sections, specialized category of students involved in sports and games, athletes and cultural activities like NCC, NSS, YRC etc.

4. The admissions are done considering the students across the cross sections of the country and internationally.
5. The student need assessment is made before the commencement of the class work.
6. Bridge courses are conducted for students as per the assessment made above.
7. Competency based syllabus design
8. Teaching emerging technologies through electives in specialization streams
9. Multi-disciplinary approach through open electives
10. Course based registrations
11. Under loading of the courses to the slow students
12. Usage of active learning methods for course delivery
13. Conducting of classes to slow students based on continuous assessment
14. ICT based course delivery
15. For excellent delivery of the courses, Assistant Professors are guided by Professors in training and development.
16. Intern based practice through finishing school
17. Teaching research components at UG level
18. Practice of emerging technologies through mini projects
19. Tool/Skill based learning
20. Recorded video based and simulation based teaching
21. Regular performance monitoring of the faculty and developing the faculty by various means that include subject based workshops, orientation programs, teacher training through seminars and conference programs, technology based workshops, etc.
22. The policy of generalization in teaching i.e., every faculty member has to teach different subjects of the same discipline over a period of time.
23. Recognizing and rewarding the faculty for their best performance and innovation in teaching and learning.

24. Training faculty in the use of ICT in teaching learning process.
25. Transparent examination system
26. Hybrid grading having both absolute and relative grading
27. Computerization of entire examination system
28. Evaluation of the answers for the same question related to the same course by a single examiner in respect to UG courses
29. Declaration of results within 15 days of conducting the comprehensive examination and issue of grade certificates within 3 weeks from the date of conducting of the Comprehensive Examinations
30. The key for the question paper is released and the student is allowed to compare his answers.

3.0 Research, Consultancy and Extension

3.1 Promotion of Research

3.1.1 Is there a research committee to facilitate and monitor research? If yes, give details

Yes, there is a Research Board functioning in the university to facilitate and monitor research activities. The total research activity is divided into three categories, namely In-house Funded Research, Academic Research and Sponsored Research and Consultancy.

Each of the research areas is headed by a Dean. The Deans of each segment of research facilitate and monitor the progress of research and report the same to Research Board headed by Vice chancellor (VC). The board takes all the strategic decisions and corrective actions. The following are the details of all the three research segments:

In-house Funded Research

The university has allocated Rs 1 Crores for funding all the internal innovative research projects submitted by students and the members of the faculty. A committee comprising VC, Dean (Internal Funded Research), HOD concerned and two experts in the relevant area examines the viability of the research projects applied for university funding.

Academic Research

Research Committees at departmental level are constituted for scrutiny of applications, conducting entrance test and interview and recommending the provisional list of candidates. It also identifies the eligible research

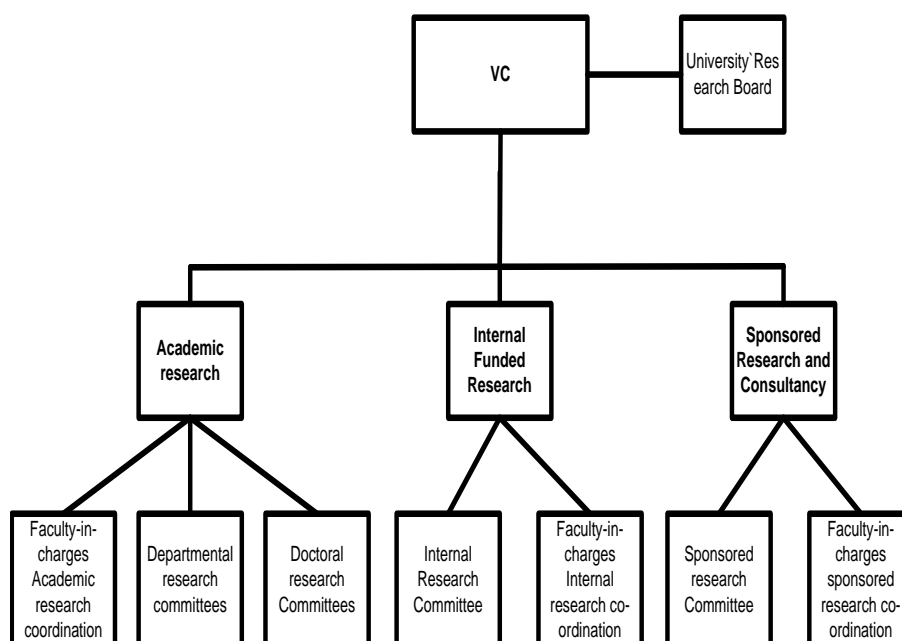
supervisors. Doctoral committees are constituted for each scholar to facilitate and monitor the progress of academic research.

Sponsored Research and Consultancy

The sponsored research and consultancy is headed by an Associate Dean. A committee is constituted with VC as Chairman and other Deans of research as members to check the quality of the proposals initiated by the members of the faculty for submission to various agencies for funding. The In-charge for sponsored research and consultancy coordinates the research activity and the funding agencies.

The organogram related to research is presented below:

Organogram for Research, Development and Consultancy



3.1.2 Is research a significant activity of the university, If yes, How does the institution promote faculty participation in research?

Research is a significant activity of the university and it promotes faculty participation in research as detailed below:

- 1) All eligible faculty are encouraged to register and pursue research work leading to award of Ph.D.
- 2) Faculty is given permission to pursue research work leading to Ph.D in reputed institutions under QIP.
- 3) Fee concession is offered to the faculty of the university who register as scholars with the university.
- 4) Faculty is being offered higher emoluments immediately after obtaining Ph.D degree.
- 5) Recognizing and remunerating faculty for obtaining patents
- 6) Encouraging faculty to apply for internal funding to carry out their research.
- 7) Encourage faculty to apply for sponsored research and consultancy projects to various funding agencies
- 8) Evaluate research performance of faculty through self appraisals and remunerating the faculty through higher annual increments

3.1.3 What provision is made in the budget for research and development?

The university is committed to encourage research and development activities. It has made a budgetary provision of **2.76** crores for promoting research during the year 2011-2012. Budget is never a limitation when it comes to research related issues. The budget provisions are being made as per the perspective plan which takes into account research growth in different dimensions.

3.1.4 Does the university promote participation of the students in research in the academic program?

Participation of the students in undertaking the mini projects, term papers, project works, dissertations, participation in seminars and workshops demonstrate student participation in research activity of the university. In addition, some courses like “Research Methodology” and “Term Papers” which are totally research oriented are being offered to the students as a part of the curriculum. The advanced students are also made members of the research groups and they participate in conducting various research activities.

The university has designed curriculum and delivery mechanisms that help the faculty to deliver the teaching in classrooms with research orientation. The students are entrusted with the research problems to be solved as assignments, mini projects, final year B. Tech projects, and M. Tech dissertations. Further they are encouraged and supported to take up innovative projects. Students are encouraged to publish the papers either out of their term papers or mini projects or Projects/Dissertations. Small modules of faculty research are also assigned to the students. University Innovation Cell has been created to encourage students with innovative ideas.

3.1.5 What are the major research facilities developed and are available to faculty and students on the campus?

There are 4 centers of excellence in the university. The details of which are enumerated below:

1. Aero space and Energy Center

The university has built a Centre of Excellence that has been equipped with the hardware and software for conducting advanced research related to Aerospace and Nuclear energy. The pilot models are being developed to demonstrate the research findings. It has signed 4 MOUs with Szewalski Institute of Fluid Flow Machinery, Gdansk, Poland; Dalian University of Technology, Dalian city, China; Autoliv India Ltd, Bangalore; Pricol, Technologies Limited, Coimbatore to collaborate on different aspects of the research. Further, the university has signed to execute two projects of highest importance titled “Fatigue analysis and optimization of seat-belt components” and “Durability Analysis of Odometer”. Out of the major research projects, 10 student based minor projects are being undertaken by 30 students who are working on these projects.

2. Embedded Systems Center of excellence

The university has built an excellence center in the field of embedded systems that caters for undertaking research, development and testing of the embedded systems. The centre is equipped with a series of Micro controllers, ASIP, SOC with piggy back arrangements. Several of the integrated development environments have been provided along with variety of real time operating systems which include VxWorks, Android etc. The center is equipped with full-fledged Androids based development platform to facilitate researching and development of wireless technology based solutions. The center has been provided with several segments which include attacking and counter attacking of the embedded systems from side channels, remote

monitoring and controlling of the safety and mission critical systems, testing distributed embedded systems and concurrent development of the embedded systems. The center is undertaking a DST approved project worth 23 lakhs and projects worth 46 lacks are in the pipeline. So far 33 B. Tech projects and 14 M. Tech projects have been carried out in this center.

3. Center for Alternate Fuel

The university has been working on energy conservation strategies and also on generating alternate energy. The center has been equipped with plant and machinery for production of the Bio diesel. Infrastructure is also being built for producing wind and solar based power and various arrangements are being made to develop the power in the mixed model. Many proposals are being submitted to central government for possible funding for carrying out advanced research. One M. Tech project and two B. Tech projects are being rolled out of this center.

4. Advanced center for Atmospheric studies

The university has many of the advanced researchers in this field. The researchers are conducting advanced research in the fields of remote sensing, data acquisition through GPS systems, study of various weather situations like tsunami and study of trajectory of various signals in different spheres. Many B. Tech and M. Tech projects have been conducted and many more are in advanced stage of development at this centre.

In addition, the university has established 21 Major research labs for facilitating excellent research. The research labs are strategically situated for

easy access to the students and faculty. All the labs are kept as per the requirements.

3.1.6 Does the university subscribe research journals for reference as per the different departmental requirements?

The Central Library of the university subscribes to various international/national journals as per the recommendations of the departments. The university is subscribing to 101 national journals, 68 international journals at a cost of Rs.5.09 Lacks. It is also subscribing to e-journals, including digital libraries at a cost of Rs.21.38 Lacks. It is making research more progressive through e-resources which can be accessed using different search engines installed on all the computers in the campus.

3.1.7 Does the university extend recognition to National institutions that provide research training leading to research degrees?

The University is in the process of recognizing national institutions for conducting research by them and recognized by the university. However the university has been working with organizations such as NSTL, DRDO, DLRL, IIT Kanpur etc. for utilizing the laboratories owned by them for doing research by the faculty.

3.2 Research and Publication Output

3.2.1 Give details of the ongoing Minor and major Projects?

The faculty of the university is active in executing the funded projects. Many of the research projects being pursued by the faculty address national research project requirements. The teachers are encouraged to submit

proposals to the governmental agencies for funding as and when various research funding schemes are announced. The following is the summary of the funded projects that are either completed or being pursued by the faculty of the university.

Type of project	Status of the project	Number of Projects	Amount in lacks of the projects
Minor	Completed	3	14.00
	In progress	1	5.00
Major	Completed	4	33.29
	In progress	28	499.24
Total	Completed	7	47.29
	In progress	29	504.24

3.2.2 Does the university have research funding from the Government, Industry, NGO or International agencies? Give details

Yes, the faculty has been conducting research in many of the major focused areas. The details of the ongoing research projects funded by government, industry and NGO etc are given below. Research projects amounting to Rs. 1,975.67 lakhs are awaiting sanction from different funding agencies.

S.No.	Name of the funding agency	No. of Projects	Amount Sanctioned in Lakhs
1.	DST	20	411.87
2.	DLRL	01	8.25
3.	UGC	05	44.78
4.	AICTE	01	5.00
5.	ISRO	01	13.44
6.	DBT	01	20.91
TOTAL		29	504.24

3.2.3 Does the University have research students currently registered for Ph .D?

Yes, the university started offering research programs right from

inception. So far two batches of students have been registered and the registration of the third batch of students is in progress.

So far 148 scholars have registered for Ph.D programs out of which **16** are fulltime scholars. The scholars are doing active research and as a result the number of quality publications is increasing continuously. The university has completed the admission process for third batch of students numbering 103 out of which 18 students are full time scholars.

3.2.4 Does the University provide fellowship/scholarship to research scholars?

Yes, the university is offering scholarship of Rs. 8,000 and Rs 5,000 per month to full time research scholars in Engineering and Non-Engineering disciplines respectively. The Board of management (BOM) is considering revising the scholarship amount to higher levels so that more number of full time scholars are enrolled.

3.2.5 Does the University have post-doctoral fellows currently working in the institution?

The university is presently working on the modalities of offering Post Doctoral fellowship programs.

3.2.6 Give the highlights of the collaborative research done by the faculty

The university is pursuing collaborative research with the institutions in India and abroad. Collaborative research is being pursued in the fields of embedded systems, aerospace engineering, wireless communication, bio-technology, antenna and wave propagation, atmospheric studies etc. Some of

the academic research programs being done by the scholars are being jointly directed by the faculty of the university and faculty from other institutions. The faculty of the university is also supervising the doctoral research programs being done by the scholars of other universities.

3.2.7 What research awards and patents were received by the faculty during the last five years?

The faculty of the university has received 101 research awards and 8 patents during last five years especially in the areas of biotechnology, antenna and wave propagation and its application areas. The faculties have received research awards that include best paper award, young scientist award, chair of international conferences etc.

3.2.8 Are there research papers published in refereed journals periodically, by the faculty? If yes, specify.

Yes, the faculty of university is regularly publishing research papers in refereed journals. As at the end of December 2011, the members of the faculty of the University have published 143 papers in national journals and 657 papers in international journals. The faculty and the students have also presented and published 172 papers in national conferences and 176 papers in international conferences. Most of the papers published in conferences and journals are indexed in reputed databases and easily accessible through various search engines. The university is also publishing a reputed half yearly International Journal titled “International Journal of Systems and Technologies”.

3.2.9 Give the list of publications of the faculty

Books

Research papers

Abstracts

Proceedings

Theses, etc.

The details of the publications by the faculty are as shown below:

Type of Publication	Number of publications
Books	27
Research Papers	800
Abstracts	8
Proceedings	348
Theses	21

3.3 Consultancy

3.3.1 List the broad areas of consultancy services provided by the Institution during the last 5 years

The following are the broad areas of consultancy services provided by the faculty during the last 5 Years.

S. No	Name of the Department	Area of consultancy
1.	Biotechnology	Bioprocess technology Microbiology Molecular biology

S. No	Name of the Department	Area of consultancy
2.	Civil Engineering	GeoTech and Transportation Structural Remote sensor and water environmental resources
3.	Computer Science Engineering	Computer Network Data Mining and Ware housing
4.	Electronics and Communications	Antenna and RF Engineering Defence Electronics
5.	Electronics and Computers	Image processing Embedded Systems
6.	Electrical and Electronics Engineering	Power electronics Instrumentation Measurements Power systems
7.	Mechanical Engineering	Condition monitoring Alternate Fuels Lifting and optimization
8.	MBA	Marketing HR

3.3.2 Does the institution publish the expertise available for consultancy services?

Every department publishes a brochure showcasing the expertise it has in offering consultancy services. The industry relations department circulates these brochures to various industrial units and conducts the activities required for signing the consultancy projects.

3.3.3 Give details regarding the nature of consultancy services and revenue generated?

The faculty has earned Rs. 32.18 lakhs of money through consultancy

services in the last two years. Consultancy services are offered in the fields of testing, development of embedded systems, etc.

3.4 Extension Activities

3.4.1 What outreach programs are organized by the institution? How are they integrated with the academic curricula?

The following out-reach programs are undertaken by the faculty of the University.

1. The senior faculty of the university delivered expert lectures, on the topics included in the academic curricula. **24** expert lectures have been delivered by the faculty during the last two academic years.
2. The departments of the university are conducting faculty development programs which are directly related to the programs offered by the university for the benefit of the faculty of several other engineering colleges in the country. **35** faculty development programs were conducted during the last five academic years.
3. The departments conduct workshops that are directly related to the courses offered by the university in which the resource persons from the industry participate. **55** workshops involving the industry persons have been conducted during the last three years.
4. All the departments conduct field studies. **4** field studies have been conducted during the last three years.

3.4.2 How does the university promote university-neighborhood network in which students acquire training, which contribute to sustained community development?

The university has an independent extension center headed by a Professor-in-charge. The extension center has separate cells each having members from the faculty, students and from neighborhood. The university conducts survey in the neighborhood of the institution and finds various issues

that must be addressed. Each cell is entrusted with a specific task. The university trains the students of each of the cells to gain the knowledge and experience related to the task. The details of some of the cells existing in the university are given below:

1. NSS (National Service Scheme Cell) which has been very active conducting different activities such as blood donations, distribution of books, etc.
2. CWW (Center for Welfare and Wellness) Cell has the members from faculty and the students and conducts activities like medical camps, imparting education on usage of computers, internet, cell phones, social justice, empowerment, operating pump sets, education on seed and ration distribution system, obtaining adhaar cards etc.
3. The university is pursuing collaborations with NCC and YRC.

3.4.3 How does the institution promote the participation of the students and faculty in extension activities of NSS, NCC, YRC and other NGOs? How often and in what roles are they involved?

The Professor-in-charge of Extension Center along with its members conducts seminars on educating the students and faculty regarding the importance of extension activities from the angle of citizenship roles and the necessity of participating in the activities being conducted by the extension cells such as NSS, CWW, etc. The students and the faculty are encouraged to take active role in such extension activities especially during the vacation periods. The faculty and the students generally take roles that include organizing, coordinating, scheduling, training, convening, leadership, etc.

3.4.4 Is there any research or extension work to ensure social justice and to empower under-privileged sections in particular, women and children?

The CWW Cell conducts education programs in the neighborhood that are related to social justice and empowerment of underprivileged sections of the society. 24 extension programs have been conducted during last 5 years.

3.4.5 What is the impact of extension on the community? Specify.

The community in the neighborhood is becoming educated, and knows different things and has been slowly becoming empowered, able to acquire knowledge related to different issues like water pollution, social justice, public health and distribution, etc. They are participating in all the extension activities being conducted by the university.

3.5 Colorations

3.5.1 How many linkages does the institution have, for research and extension?

The University has linkages with several organizations and has signed MOUs to facilitate joint research, providing research supervision or providing the laboratory facilities. The university has signed **18** MOUs with foreign institutions for conducting joint research. The university is also pursuing 4 MOUs with organizations like NSS, NCC, YRC etc. for conducting joint extension activities.

3.5.2 List the organizations and the nature of linkage and expected outcomes.

The list of linkages, the details of the nature of linkage and the expected outcomes out of the linkage are given below.

List of MOUs signed by the University with Industrial units and Other Organizations

S.No	University	Country	Proposed Programs
1.	Auto Liv	India	Training & Projects
2.	Pricol	India	Training & Projects
3.	Dalian University of Technology	China	Joint Research, workshops, Exchange
4.	Szewalski Institute of fluid flow machinery	Gdansk, Poland	Joint Research workshops,
5.	Villanova University (Project based)	USA	Joint Research workshops,
6.	Institute of Mechanics, Izhevsk State Technical University,	Russia	Joint Research, workshops
7.	National College of Ireland	Ireland	2+2 Program, Joint Research, workshops, Exchange
8.	Glasgow Caledonian University	Scotland	Faculty Exchange
9.	University of Massachusetts	Lowell, USA	Joint Research, workshops, Exchange
10	Devry University	USA	MS program
11	University of New Orleans,	USA	2+2 Program, Joint Research workshops, Exchange
12	St Louise University,	USA	Joint Research, workshops, Staff Exchange
13	IBSN Inc	New York	
14	IUCEE	U-MASS USA	Expert Lectures
15	The Robert Gordon University	United Kingdom	Joint Research workshops, Student & Faculty Exchange
16	Plymouth University	United Kingdom	Joint Research workshops, Student & Faculty Exchange

S.No	University	Country	Proposed Programs
17	Latrobe University, Australia	Bundora, AUS	Joint Research workshops, Student & Faculty Exchange
18	Indiana State University, USA	Terre Haute, USA	Joint Research workshops, Student & Faculty Exchange
19	Technical University of Cluj Napoka	Romania	Joint Research workshops, Student & Faculty Exchange
20	Jackson State University, USA	Mississippi, USA	Joint Research workshops, Student & Faculty Exchange
21	State University of New York, (SUNY-B)	New York, USA	Joint Research workshops, Student & Faculty Exchange
22	Rutgers State University,	New Jersey, USA	Joint Research workshops, Student & Faculty Exchange
23	Central Michigan University	USA	
24	Hanze University	Netherland	Resources Sharing, Technology Transfer
25	Infosys Technologies	India	Campus Connect
26	Virtusa (India) Pvt.Ltd	India	Lunch Pad trg for their recruits
27	IBM- Academic Initiative	India	Training & IBM Certification
28	Van Oord, Netharlands	India	Dredging Operation
29	Keane India Ltd.,	India	Platinum Partner
30	Zensar Technologies Ltd.,	India	Virtual Industry on Campus
31	3i Infotech Ltd.,	India	Virtual Industry on Campus
32	Central Power Research Institute	India	Training & Projects
33	Electrnics Corporation on india Limited – (ECIL)	India	Training & Projects

3.5.3 How does the linkage promote

Curriculum development

Internship

On-the-job training

Faculty exchange and development

Research

Consultancy

Extension

Publication

Student Placement

The Linkage helps the university in the following areas:

a) Curriculum development

The university invites experts from industrial organizations to serve on Board of Studies (**BOS**) of the Department, thus promoting curriculum development.

b) Internship

The university is deputing its students to industrial organizations for project execution (Finishing School) directly under the supervision of industrial experts.

c) On-the-job training

The university is deputing students for ‘on the job training’ for a period of 6 weeks during the summer of 2nd year of UG programs.

d) Faculty exchange and development

1. The faculty of the university is delivering expert lectures / invited talks to the external teaching fraternity and to the employees of Industrial organizations.

2. Faculty / experts from the industrial organizations having linkage with the university are delivering expert lectures for the benefit of the faculty and the students of the university.
3. Deputing the university faculty to foreign institutions to undertake course work.
4. Foreign professors are undertaking the course work within the university or through video conferencing

e) Research

1. The faculty of the university are engaged in conducting joint research with the professors of other institutions
2. The faculty of the university are making use of the laboratory facilities of other institutions
3. The professors of foreign institutions are serving as research supervisors to the scholars admitted by the university

f) Consultancy

1. Showcasing the capabilities of the faculty and the infrastructural facilities available with the university for conducting the consultancy
2. Signing up contracts with the institutions for undertaking the consultancy works

g) Extension

The linkages with the institutions at district level organizations have been helping in conducting smoothly various types of extension activities such as NSS for the benefit of the neighborhood of the university

h) Publications

The faculty of the university, as a consequence of conducting joint research, is publishing papers in internationally reputed journals and conferences.

i) Student Placement

The Industry Relations and Placements (IRP) cell of the university is interacting constantly with the industrial organizations showcasing the strength of the university in terms of infrastructure, quality of students and various types of teaching learning processes. As a consequence of the effective linkages established by IRP, the university has achieved 100% placement for the last 5 Years.

3.6 Best Practices in Research, Consultancy and Extension

3.6.1 Describe the best practices in research, consultancy and extension with reference to promotion of research/publication output/ consultancy and extension activities / collaborations?

Best Practices in Research, Consultancy and Extension.

1. Grouping the faculty as per focused research areas and jointly investigating in the focused areas in different dimensions
2. Continuous assessment of the research being conducted by scholars
3. Every research program leading to a demonstrable outcome
4. Conducting field based research related to neighborhood problem areas
5. Allotment of working hours to research
6. Awards and incentives to those who perform well in the research
7. Conducting research in the areas which are prioritized by the country with the assistance of sponsorship from the government
8. Trifurcation of research activity into Academic Research, Sponsored Research and Consultancy and Internal Funded Research and each of the research segment headed by a person at the rank of a Dean

9. Patenting feasible/ appropriate investigations
10. Involving the students to generate innovative ideas and conducting the research in that area
11. Funding viable innovative projects through internal resources
12. Establishing research labs and associating various research groups to each of the lab
13. Showcasing the ability of the faculty and infrastructural facilities through marketing brochures
14. Conducting consultancy for different organizations that need help even at cost to cost basis
15. Assurance of quality of research through publications in refereed journals which have high impact factor and indexed into databases like SCOPUS, STPI, etc.
16. Assurance of quality of publications in international conferences which indexes the papers into reputed digital libraries like IEEE, ASM, Springer, and indexed into reputed databases like SCOPUS, STPI etc.
17. Conduct survey related to neighborhood issues
18. Conduct field based research
19. Train the students and the faculty in organizing extension activities
20. Collaborate with the institutions having common focus especially in the areas of research, and in emerging technologies.

4.0 Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 How well endowed is the University in terms of physical Infrastructure? (Classroom, administrative buildings, transport, water, power supply, etc., to run the academic program). Enclose the master plan of the University campus indicating the existing building and the projected expansion in the future

Class Rooms

The university has adequate classrooms which are built as per AICTE norms. As on today the university has **129** class rooms and tutorial rooms which are built within **1, 69,628** square feet area.

Administrative Buildings

Physical space is provided in terms of different blocks, open areas, tree plantations and roads. The campus is divided into individual blocks in which several organizational units are situated. The university campus is housed in 14 blocks and one block is under construction. The university is situated in 43.56 acres abetting Buckingham Canal in a Green environs. As on today the university has a built-up area of 7,26,014 of square feet and another 1,25,000 square feet of area is being added. The university has always been maintaining physical space as per AICTE norms and the development of various buildings and facilities is undertaken as per the goals of the university.

Transport

The university has as on today 56 buses having a seating capacity of 3360. The buses are scheduled to run to different points covering the

neighboring cities like Vijayawada, Guntur, Tenali, Mangalagiri etc. as per the students' location concentration. The buses are operated at regular intervals starting from 7AM to 9PM. late evening buses are also operated to cater to the research scholars.

Adequate parking space is provided for faculty, staff, students and visitors for their vehicles (cars, two-wheelers, bicycles etc.). One light transport vehicle is available round the clock on all 365 days for emergency. Transport facility is also made available for industrial visits.

The university has provided separate transport facilities for transport of the faculty between the university campus and other neighboring cities. Twelve more vehicles are also provided to meet transport requirements of different functionaries.

A Professor is made in-charge for all the transport facilities who is assisted by a transport committee for taking all the major decisions related to transport. A student representative is on the departmental committee to discuss any of the issues related to transport arrangement.

PBX System

A 1000-line system is already in place and communication facility is given to all departments, labs, canteen, HODs office and other functional units.

Water

The university has abundant underground water and the same is supplied to different blocks. Mineral water plant is established in the campus, which provides water for drinking purposes. The mineral water is filtered through an

inbuilt mechanism before it is supplied to the concerned.

Power Supply

The input power to the campus is achieved through 33 KV HT supply with a contracted maximum demand of 750KVA. This input power is transformed and supplied to various blocks through underground LT cables. A separate 33 KV HT supply is provided with a contracted maximum demand of 150 KVA especially meant for supplying power to the girls hostel.

As on today 1160 KVA of backup power is available through different capacities of generators connected at different points to the supply system. The generators are maintained in full working condition on all 365 days, ready for facilitating uninterrupted operation. Power is made available whenever there is a power shutdown during the working hours of institution. Separate generators are provided for girls and boys hostels.

Lighting in general corridors, roads and in all central facilities like seminar halls, indoor stadiums, classrooms and laboratories etc. is provided and continuous availability of the same is ensured. Fans, air conditioning facilities are provided wherever required.

Safety

The university has taken due care in providing security to infrastructure and all associated facilities within the university.

- i. Every Department is equipped with proper firefighting equipment in all the laboratories and common areas and also central facilities like seminar halls, libraries and canteen

- ii. Street lighting is connected to 10 KVA generators and whenever there is a power cut, it is confined to campus street lighting
- iii. Safety measures with charts are displayed in all laboratories
- iv. Departments ensure that all buildings, stair-cases, corridors, common areas are protected with railings/ parapet walls
- v. All electrical machinery and mechanical department equipment are provided with proper safety guards/ welded mesh guards
- vi. All equipment in all laboratories is grounded with proper and perfect earthing system
- vii. Proper dress code is enforced to ensure safety of students while working in laboratories
- viii. Safety certificates are obtained for both mechanical and electrical equipment from factory inspectors from time to time as per the statutory requirements
- ix. CSS Department conducts safety awareness program once a year and all the departments must also conduct a safety day once a year.

Hostels

The university has built separate hostels for the girls and boys. As on today 704 girls and 1334 boys are being accommodated in the hostels. While the girl's hostel is situated within the campus, the boys' hostels are situated outside the campus within a maximum distance of 1KM.

A new accommodation for housing 500 more girls is on the verge of completion. Each hostel has adequate and safe water supply, kitchens, dining halls, common rooms (with newspapers, TVs, telephones), toilets and bathrooms. Every Student in the hostel is provided with a cot, study table, chair and rack.

Each hostel is effectively managed by a resident warden and a Committee and a professor-in-charge assists the warden to ensure discipline, upkeep and quality of food and nutrition at the hostels. A student representative is on the departmental level hostel committee to discuss any of the issues related to hostels.

Guest Houses

The university has two guesthouses, one housed within the campus and the other in the city. Both guest houses provide food, accommodation and electronic media facilities. Fifty percent of the rooms in the guesthouse are air-conditioned. The guesthouses can accommodate 30 persons at a time.

Canteens

The university has one central canteen that can house 800 persons. The canteen is operated from 6AM to 7PM. The university also has a number of food centers situated in each of the blocks that can accommodate nearly 300 students. The canteens are designed to serve boys and girls separately. The canteens are open on all the working days and also on holidays whenever the canteen facilities are required. The canteens/cafeteria is provided with all the facilities that include gas, steam and electric ovens, modern cooking ware, and furniture. The canteens are properly ventilated and provided with adequate lighting and fans.

Hygiene is given utmost importance in the canteen. Canteen Committee and its Prof-in-Charge plan and coordinate all of its activities. A student

representative is on the departmental level canteen committee to discuss any of the issues related to canteens.

Post Office and Bank

The university has an in-house post office which operates on all the working days. The university has State Bank of Hyderabad branch along with an ATM which caters to the requirements of the students, faculty and staff.

4.1.2 What are the infrastructure facilities available for

- a) Academic activities**
- b) Co-curricular activities**
- c) Sports**

The following are the details of the infrastructural facilities that are related to academic activities, co-curricular activities and sports

a) Infrastructural facilities for academic activities

1. Class Rooms

Each Section of every batch is provided with dedicated, Wi-Fi-enabled classroom with an LCD Projector, Audio System, adequate furniture, lighting and ventilation. The class rooms have been designed with different area specifications to house certain number of students. Every class room has been designed for a minimum plinth area of 70 Sq Meters.

2. Tutorial Rooms

Time tables are designed considering two of the class rooms in each

of the department as tutorial rooms.

3. Laboratories

As on today the University is operating 72 physical laboratories that can simultaneously accommodate 2500 students. All the laboratories are established with additional equipment over and above the curriculum. 21 laboratories are developed exclusively for research and 5 laboratories are also developed to train the students in emerging technology areas. In addition, the university has developed exclusive excellence centers in the areas of embedded systems, aerospace and nuclear engineering, and atmospheric studies.

Each of the departments has a separate Computer Lab with sufficient number of computers besides a Centralized Computing Facility. The university is maintaining equipment-to-student ratio (1:4), Computer to student ratio (1:1) in the laboratories as per AICTE norms. The University has provided 1,27, 423 square feet of laboratory area considering all the types of laboratories, to accommodate simultaneous laboratory load of 2500 students.

4. Library Facilities

The university has a central library having a space of 16,370 square feet that can house 1000 students at a time. The library is open from 7AM to 9PM on all the working days, 7AM to 11PM on examination days and from 7AM to 5PM on all the holidays except a few declared national

holidays.

The university is constructing **1,75,000** square feet area for accommodating modern library. The facility is planned to be equipped with the state of the art technology. In addition, every department has its own library. The library houses all the latest editions of the text books and journals in addition to many other collections.

The university central library is completely automated and has launched many of the e-journals and e-books, in addition to regular books and journals. The enquiry system is so powerful that the students have to visit the library only for physical borrowing of the books and to refer to reference books. The university as of today has 26,689 titles and 1,01,230 volumes.

In addition to the central library, every department has its own departmental library to maintain all the text books which are to be used by the students and faculty as per the references provided in the curriculum design. The latest issues of the journals, term papers, B. Tech. projects and M. Tech dissertation reports are stacked in the library.

5. Central Computing Facilities

The University is operating a 240 seater central computing facility which is open round the clock and the facility is accessible to all the faculty and students. In addition, every department has its own local computing facility.

b) Co-Curricular related infrastructural facilities

The university has designed the entire education system considering all-round development of the students. The university has been conducting many co-curricular activities that are related to professional development, entrepreneur development, etc. The university has provided one open air theater, one auditorium, 11 seminar halls, and 5 conference halls. All the facilities are air-conditioned and are fitted with modern gadgets.

c) Sports related infrastructural facilities

The university has created a number of facilities to train and conduct a variety of sports and games. A separate committee manages the creation and maintenance of the sports complexes and facilities. The facilities provided include an indoor stadium, yoga center, gymnasium, and a number of outdoor complexes.

The university has appointed 13 coaches to train the students in different games and sports such as football, cricket, shuttle, handball, chess, table tennis etc. and make them proficient to compete at different levels. A total of 8,612 square feet area is presently provided to accommodate sports and games complexes.

d) Extra Curricular related infrastructural facilities

The university has provided a number of facilities for supporting extracurricular activities that are related to culture, creativity, arts and recreation.

The university has established a student association namely K L University Students Organization (KLUSO) with a number of clubs in it to facilitate a

variety of extra-curricular activities. KLUSO is operating 14 clubs and organizes two annual festivals viz. Technical Festival (SAMYAK) during first semester and a Cultural Festival (SURABHI) in the second semester.

Students from all over the country participate in the **SAMYAK** festival and showcase their talent in many competitive events. Many awards are given away to the winners of these events. The cultural festival is conducted as a part of the Annual Day celebrations. An indoor stadium with a capacity of 600, an open air theater of capacity 4000 students and several recreation halls with necessary facilities are provided.

4.1.3 Has the institution augmented the infrastructure to keep pace with academic growth? If yes, specify the facilities and the amount spent during the last five years.

The University has been augmenting the infrastructural facilities keeping in pace with academic growth. The university has spent 46.03 crores of rupees to provide infrastructural facilities during the last five years, the details of which are provided below:

S.No.	Type of Infrastructure	Amount spent in Rs. Lakhs
1	Land	5.83
2	Buildings	2684.40
3	Furniture	314.90
4	Office equipment	286.50
5	Lab equipment	752.03
6	Library books and equipment	116.21
7	Exercises and drill equipments	10.30
8	Vehicles	287.10
9.	HT Power	4.21
10.	M. Tab equipment	16.24
11.	R&D expenses	40.41
12.	Generators	38.15
13.	Others	46.38
Total		4602.66

4.1.4 Has the institution provided facilities like common room, wash / rest room for women students and staff?

The university has provided in every block, a ladies waiting hall having a wash room, rest room catering to both women students and staff.

4.2 Maintenance of Infrastructure

4.2.1 What is the budget allocation for the maintenance of Land, Building, Furniture, Equipment, Computers, Transport

The university has been providing adequate budget for maintenance of various infrastructural facilities. The university has provided 946.35 lakhs of maintenance budget for a capital cost of 12076.28 lakhs during the last 5 years. The university has been providing maintenance budget based on standard norm (20% for equipment) in relation to capital cost of the infrastructural facilities.

4.2.2 How the budget is optimally allocated and utilized?

The perspective plan and the utilization of budget in the previous years are used as the basis of allocating the budgets for capital procurement, maintenance and operational management of the organization. The utilization of the budget is continuously monitored and reappportionment of the budget is done accordingly. Always prompt and adequate budgets are provided for all the developmental elements of the university. The following is the process observed in allocation and optimal utilization of the budget.

1. Finance Committee estimates the budget allocation based on the perspective plan and makes allocations in terms of three heads - Operational, Maintenance, Development, considering the growth rate and

Circulates the same to the departments.

2. In the month of January every year, HODs project their requirements under each of the above heads for the next academic year to be placed before the Finance Committee.
3. In a similar way the non-academic units of the institution project their annual requirements.
4. Finance Committee takes into account the possible revenue integrates all three of the above heads across the institution, makes and communicates individual budgetary allocations to each functional unit.
5. All functional units make their purchases before the beginning of the next academic year.
6. Finance Committee collects all the Utilization Reports and any unutilized funds are re-appropriated.
7. As a part of control, the operational budget is prepared taking into account the existing stock and patterns of annual consumption
8. For development budget, university perspective plan is considered and allocations are made on the basis of predefined priorities.

Budget allocations are made in relation to Major and Minor accounting elements. The HODs and the functional heads initiate plans and procurement actions as per budget allocations. The university reviews the utilization of budgets in the middle of the year and reallocates the budgets based on utilization, emergent requirements, extra budget requirements, etc. The university has allocated a total budget of Rs. **28,885.04** lakhs during the last 5 years.

4.2.3 Are there staff appointed for maintenance and repair? If not, how are the infrastructure facilities, services and equipment maintained?

The university has established six departments (general maintenance,

electrical maintenance, mechanical equipment maintenance, transport maintenance, computer related equipment maintenance and software maintenance) for undertaking maintenance and repair of different infrastructural elements.

The Professor-in-charge with the help of transport committee undertakes the maintenance and repairs of all vehicles by seeking the services of outside organizations. The maintenance and repairs are undertaken on case by case basis.

The Department of computer equipment maintenance undertakes maintenance and repairs of the computers, servers, peripherals, UPS, stabilizers, wired network, Wi-Fi network, and interconnections with internet service provider. The department also maintains a data center, a set of data bases, web servers, exchange servers and many software packages that run within the departments. This department is manned by a Systems Administrator and many Hardware Engineers (one Hardware Engineer for every 150 systems).

The Department of Automation takes care of development and maintenance of the Application Software, maintaining the website, e-learning portal, and library automation system and database administration.

The General Maintenance Department is undertaking the maintenance of buildings, furniture, plumbing, pumping, water distribution, sanitations, roads, gardens, etc. by the separately appointed persons for the purpose. The Department of Electrical Maintenance maintains all the electrical equipments

and fitments including the generating sets, transformers, incoming feeders, lighting, pumps etc through the internally appointed employees of the university.

The Department of Mechanical Equipment maintains through separately appointed persons, all the mechanical equipment in the central workshops and in other areas.

4.2.4 How is the infrastructure optimally used?

The usage of every infrastructure element that includes class rooms, laboratories, seminar halls, conference halls, auditorium, etc is planned in such a way that 100% utilization is achieved. The laboratories commonly required by different programs are centrally located and the same are used through proper scheduling. The lab scheduling is designed considering the capacity of each lab in terms of student occupancy, number of sessions and the strength of technicians. The program-year-section design is also done considering the sitting capacity, availability of audio visual aids etc. All the seminar and conference halls are optimally utilized based on the type of program and strength of participants.

4.3 Library as learning resource

4.3.1 How does the Library ensure access, use and security of materials?

The library has initiated and implemented many measures to ensure access and use of the library:

1. Maintaining the library timings suited to the students during the phases of the academics, examinations and holidays
2. Classifying and stacking the library collections in the subject wise

racks

3. Demarcating the library into different sections such as books, periodicals and journals, reference books, back volumes, book bank, etc.
4. Making the library fully automated thereby making available online search to check the availability of the books, conducting the research survey using the digital libraries, downloading the research materials, reading e-books online, etc.
5. Librarian hosts information on KLU website and sends SMS to the HODs on the arrival of the new books
6. Books are issued as per norms.

The following are the statistics of usage of the library per day on an average

S.No.	Type of Usage per day	Average No.
1.	Students visits on working days	1326
2	Students visit on Non working days	10
3	Faculty Visits on working days	24
4.	Book borrowings	753
5.	Access to digital Library	150
6.	Usage of CDs/DVDs	20
7.	Number of publication downloads	264

The library has implemented several mechanisms to ensure security to the library access to library materials. The following are the mechanisms implemented:

1. 24 Hours security through security personnel
2. Entry of the students and faculty through ID card verification and biometric devices
3. User ID, password authentication for online access of the library
4. Accessibility of the e-books, online journals through local network

domain

5. Security check during exit and entry points
6. Installation of video camera at strategic points and the security staff monitoring to check any malpractice
7. Computerization of receipts and issues of the books
8. Periodic stock verification of the books
9. 'Read' only facility within the library for the reference books and journals. However reference books can be borrowed a day before public holiday and returned on the next working day.
10. Spraying of pesticides periodically.

4.3.2 What are the facilities available in the Library? (Computers, Internet, Reprographic facilities etc.)

The central library has been provided with the following facilities

1. 60 latest desktop computers connected on a local area network and connected to a wide area network through optical network and WiFi network.
2. Availability of the internet connectivity to every computer with a total band width of 145 MBPS.
3. Digital Libraries like Springer, IEEE, ASCE, ASME, ACM, EBSCO etc; and also data bases like DELNET, PROWSE, online journals and e-books are accessible using the internet facility and on the local area network
4. Stacking of 5503 educational CDs/DVDs on variety of subjects taught by eminent professors and a TV is provided in the library to enable the students to watch the CDs
5. Photostat, printing and scanning machines.

4.3.3 How do the Library collections cater to the needs of the users?

The library is maintaining different types of collections that include books, reference books, journals, periodicals, back volumes, digital libraries,

e-books, DVDs, CDs, project reports, term papers, dissertations, theses, conference proceedings, etc.,

The central library has several users which include management, faculty, scholars, students, staff and visitors. The needs of each type of user are met through the collection of the library. The following needs of the students, faculty, scholars and management have been met through the collections.

1. Borrowing the latest edition of books that are referred in the library
2. Referring the books in the reference section
3. View the CDs and DVDs in the subjects for which they are currently registered
4. Browse through e-Books
5. Browse through e-subject sites
6. Online enquiry for the availability of books
7. Information on the latest arrivals of the books
8. Borrowing books through inter library loans
9. Borrowing project reports, term papers, M. Tech dissertations and Ph.D thesis.

In addition specific books and journals required by the scholars and researchers for carrying out particular research are also maintained through different collections.

4.3.4 How does the Library ensure purchase and use of current titles, important journals and other reading materials

Procurement of Current Books and Journals

The librarian prepares a list of books and journals which are current by seeking information through the following means:

1. Collection of catalogues of all the famous book publishers and noting down the latest editions of the books that are referred in the syllabus much before the commencement of a semester and purchase them and inform arrivals of such editions
2. Departments recommending the purchase of books and verifying the same for the latest editions either through catalogues or through online enquiry of the book stores
3. Searching the website for latest entry of journals and forwarding the same to departments for recommendations to subscribe for the same
4. The faculty visits to book exhibitions and recommends for the latest editions when the same are found
5. Searching for current titles and journals by having the access to DELNET services.

Procurement of the Books

The university has adopted the following streamlined procedure for procurement of the books

1. Every month the Departmental Library Committee – consisting of the faculty, students and with the HOD as the Chairman meets and recommends the latest books to the Central Library Committee for purchase.
2. Central Library Committee takes this into consideration and recommends the purchase of the books.
3. Librarian purchases books from publishers based on the approvals.

Use of the Current Titles

The librarian takes the following actions to ensure the use of current titles, journals and other reading materials

1. All the new arrivals are notified to all the users through circulars, display boards and web-based posting and through sending emails
2. Forwarding the list of new books to all the connected senior faculty

and the HODs

3. Encouraging the students to forward their comments and suggestions.

4.3.5 If the Library has an archives section, to what extent is it used by the readers and researches?

The library has an archives section. In this section all the back volumes, old editions, question papers of the examinations held since 1990, subject handbooks and encyclopedias are stacked. Mostly the scholars use the back volumes of the journals for literature survey. The usage of the archives for literature survey has been reducing due to availability of digital library. Sometimes the old volumes of the books are referred by the faculty when they need to set the question papers to other universities.

4.3.6 How are on-line and Internet services in the Library used by students and faculty? Specify the hours and frequency of use

The students of the University use the internet for searching the literature and also for accessing the digital libraries subscribed by the university. All the important digital libraries like IEEE, ASME, ASCE, ACM, etc. are subscribed by the university for Online Access.

The internet facility is being used for online access of the e-books and e-journals also. The users are allowed to use the online and internet facility right through the working hours of the library. The online access of the digital library is quite regular as major part of the research survey is conducted using the digital libraries. There is no restriction as such on the usage of the internet for library access purposes. The online access to the library through internet is a 24/7 operation. The access to some websites is restricted to ensure that the

internet is used for the academic purposes only

4.3.7 Are the library services computerized? Does the institution make use of INFLIBNET/ DELNET/ IUC facilities? If yes, give details

All the library services are computerized. A separate website is provided for making available all the library services. Library implements On-line Public Access Catalogue System (OPAC) for on-line enquiries. Information related to Books, Journals, Periodicals, and Electronic CDs etc. is accessible using a Web Interface (Web-OPAC). Automation system provides statistics on usage, editions, missing volumes and provides annual ledgers.

Library automation system provides authenticated and authorized access to the students, staff and faculty. Library Information System supports the reservation and tracking system which reminds the book borrowers in case of inadvertent delays.

The university has computerized all the services related access to digital libraries through their respective digital library websites. The university has subscribed for DELNET and presently the service is being used for borrowing the books that are scarce and not readily available, online access to union and other catalogue, etc.

4.3.8 For how many days is the library kept open in an academic year? How many hours is the library open per day?

The following are the details of the working time of the library

1.	Working days in an academic year	347 days
2.	Hours open a day during normal working days	14 hours
3	Hours open a day during examinations	16 hours

4.3.9 Does the Library have an advisory committee? What are its Functions?

The University has a Central Library Advisory Committee to advise on library related matters. The Central Library Advisory committee has been constituted with one faculty and one student from each discipline as its members. A Professor-in-charge is nominated as the chairman of the library advisory committee. The following are the functions of library advisory committee that fall under the category of advising.

1. To advise the librarian in several areas that are related to smooth functioning of the library, upgrading, book purchasing, journal subscriptions, development of online library, subscribing for digital libraries, library automation, access control, modern infrastructural facilities, etc.
2. To help the librarian in developing the perspective and annual plan for the library
3. To advise on development and delivery of orientation programs for library staff
4. To develop and recommend various norms for stocking of titles, books, journals, etc.
5. To assist the librarian in developing and maintaining e-resources
6. To advise on library timings
7. To advise the librarian in making available details of the latest issues, book reviews, etc.
8. To help the librarian in developing the inter library network.

4.3.10 Amount of money spent for new books, journals during the last five years?

The following are the details of the money spent in lacks on the books and

journals during last 5 Years.

Year	Amount spent in Rs	
	Books	Journals
2006-2007	16,04,116	3,83,506
2007-2008	16,13,285	4,03,601
2008-2009	20,25,796	4,97,058
2009-2010	18,45,355	6,49,331
2010-2011	27,60,230	10,24,281
2011-2012	17,39,335	18,28,066
Total	1,15,88,117	47,85,843

4.3.11 How does the Library motivate students/ teachers to read existing and new arrivals?

The university has implemented a number of methods to motivate the students/teachers to read the existing and new arrivals. Following are some of the methods practiced by the university.

1. Display of new arrivals
2. Librarian and library staff conduct orientation classes to provide awareness and motivate students in frequent use of library
3. Information brochures about the services and resources in the library
4. Open access system for books
5. Assistance to faculty and students in locating books
6. Guidance and assistance in accessing e-books and e-journals
7. Updating automated catalogues
8. Regular stack maintenance
9. Reservation and arrival intimation of books
10. Display of new arrivals
11. Excellent ambience for reading
12. Periodical uploading of information about latest e-books, e-journals on the FTP site and passing information about the same through administrative circulars.

4.3.12 What are the special facilities offered by the library to the visually challenged and physically challenged person? How are they used?

The university is providing special personalized services within the library wherever necessary. Some of the services rendered are the following:

1. Issuing and receiving books at the locations of the physically challenged persons
2. Personal assistance for locating and enquiring about the books and journals.
3. Wheel chair facility to move within the library and within the campus

4.3.13 List the infrastructural development of the library during the last 3 Years

The details of infrastructural development of the library during the last 3 years are shown below.

Year	Amount spent in lacks	
	E-resource	NPTEL
2009-2010	1,48,504	-
2010-2011	5,57,062	1,00,000
2011-2012	14,32.588	-
Total	21,38,154	1.00,000

4.4 ICT as learning resource

4.4.1 How is the computer facility extended to all faculty and students?

The computer facility is extended to all the students and the faculty in several ways

a) Computers

There are 2500+ systems available in the institute with a ratio of Student-to-Computer at less than 4:1. In addition every student has his/her own

laptop which is made available through the university on bulk purchase at a concessional price.

Each department is equipped with a Computer Center with relevant software. All the Systems are Dual Core or Core 2 Duo with LCD Displays. All faculty rooms are provided with a computer and required peripherals. Main Computer Center (CSE Center as a central facility) works for 14 hours on all working days and 12 hours on holidays. Departmental Computer Centers also work for extended hours whenever required. All campus computers are networked. All computers on campus are also connected with Wi-Fi network. Each of the faculty administrators is also provided with a laptop.

b) Wi-Fi Network:

The institute has established Wi-Fi network connecting all computer systems in the campus. All interactions including e-mails, queries to teachers, assignment submissions, digital class room lecturers, access to lecture notes, etc. are done using Wi-Fi network. E-Learning is also implemented using Wi-Fi. Students perform the following using Wi-Fi network:

1. Internet based conferences, workshops
2. Learning through interactive CBTS downloaded from university WEB site
3. Undertaking online examinations
4. Chatting with faculty to clear doubts
5. Implementation of user groups

6. Learning soft skills online which include vocabulary, grammar, comprehension, reasoning, quantitative math.

Particulars of students, faculty, mini projects, main projects, Seminars, Papers, and PPT etc are placed on the university website for the benefit of others.

c) Internet

Presently the entire University has internet connectivity of 145 MBPS bandwidth through optical fiber cable and through Wi-Fi network. The bandwidth is achieved through BSNL conduit to knowledge commission.

d) E-Mail:

Every staff member and student has an e-mail ID. HODs send departmental newsletters to the students, staff and alumni of the department. All suggestions, queries received from alumni and students are replied immediately. Entire communication in the university has been made electronic.

4.4.2 How are the faculty facilitated to prepare Computer aided teaching/ learning materials? What are the facilities available in the University for such efforts?

The faculty of the university is facilitated in a number of ways to prepare computer aided teaching and learning materials. The following are the different ways of facilitation.

Availability of Computers, Peripherals and Software

Every faculty prepares course contents such as course handouts, LAB manuals, course materials, lesson plans, design of lab experiments,

assignments, tutorials, etc. Each faculty is given access to either laptop or Desk Top computer systems which are loaded with many of the software tools such as MS Office, MS Projects, Mat LAB, Simulink, ARCAD, AutoCAD etc. The faculty is making all the delivery materials using the computers provided to them. Every faculty is also provided with individual WEB pages using which all the course material is uploaded to e-learning site.

In addition to the computers, the faculty is provided with facilities such as printers, scanners, video camera and other ancillary equipments which are required for preparing the course material.

The course delivery method

The course delivery at university is planned around usage of Blooms Taxonomy. The faculty designs the delivery of syllabus of a course entrusted to them in terms of topics that will be delivered by using methods such as class room lectures using PPTS and LCD, simulation, animation, group discussion, case study and other methods. Sometimes the courses are delivered through recorded video displays and through video conferencing from remote locations. The university has created a separate ET and animation center to help developing some of the lessons to be taught in animation mode.

Infrastructure in class room

The class rooms and labs are provided with internet connectivity, local area connectivity and wide area connectivity. The class rooms are also provided with audio and video equipment so that the faculty can deliver their

lectures using the materials provided to them.

Language LAB

The university has provided language lab using which the students are trained to improve their communication and language skills.

Accessibility of video lectures

The central library is maintaining many video recorded lectures on various subjects. The faculty is given access to these videos. They have the opportunity to train themselves first using the videos before they start delivering the assigned courses. The training taken in this manner helps the faculty to develop excellent teaching/learning materials. The university has with it, 1000 video lectures which are maintained in the central library.

Subject workshops

The university is organizing subject workshops every semester conducted by eminent professors from all over the world. The members of the faculty who are assigned with the related subjects are trained through these workshops thereby helping the teachers in the preparation of teaching-learning material. The university has conducted 32 subject workshop delivered by the foreign professors during the year 2010-2011.

Organization of Guest lectures

The university is organizing the guest lecturers delivered by industry personnel and academia. The guest lectures are generally organized in the subject areas that are ongoing at that time. The teachers concerned with the

subjects are directed to attend these lectures so that the teachers are strategically positioned to develop excellent teaching / learning materials. The university has been organizing guest lectures continuously year after year covering the subjects being taught and the emerging technologies. The university has conducted 24 guest lectures during the year 2010-2011.

Availability of e-books

The university has excellent inventory of e-books hosted on FTP server. The faculty can read these books online and interactively position the lectures at particular page or diagram and still present the same in the class rooms. The university has put on to the FTP server around 1200 e-books on different subjects on to KLU network.

Subject based websites

The internet based facility helps the faculty to visit the subject based websites and update themselves with subject before moving with the preparation of teaching/leaning materials.

4.4.3 Is there a central computing facility, If yes, how favorable are its timings, access and cost to both students and faculty?

KL University has one central computer center with 250 workstations all connected in local area network with many back end servers. The center is open to all and is operated 14 hours on working days and 12 hours on holidays, and in addition every department has been provided with local computer center to cater to students and faculty of each of the department. All the facilities at central computing location are made available to the students

free of cost.

4.4.4 How are the computers and its accessories maintained in the department?

The department of system administration maintains all the computers in the department. Every time a fault is noticed, the same is recorded into a maintenance form and sent to System Administration Department, who rectify the problems by undertaking the necessary repairs. The turnaround time for completing the repairs is 24 Hours.

4.4.5 What is the output of the various departments in developing packages for their discipline?

Every department develops software packages either for administration or managing the academics and research in case the software packages supplied by the university do not suit the requirements. Some departments are also engaged in developing software that is meant for automating the university system. The university has developed software packages for library usage, examinations, registrations, attendance automation, etc. which are being used for managing the education system at KLU.

4.5 Other Facilities

4.5.1 How many students stay in the hostel? How many rooms are there in the hostel? Is the accommodation sufficient to meet the demand?

KL University is operating hostels for girls and boys separately. In all 850 rooms are available in the hostels.

As on today 1334 boys and 704 girls stay in the hostel. There are 450

rooms available in the boys hostel and 400 rooms available in the girls' hostel. Sufficient accommodation is available for both boys and girls. Rooms are also available beyond the demand.

4.5.2 What facilities are provided in the hostel?

Mineral water plant, newspapers, telephones, televisions, public address system etc. are provided in the hostels. Rooms with attached toilets and bathrooms are also provided for the students in the hostels. Every student in the hostels is provided with a cot, study table, chair and a rack. Some air-conditioned rooms are also provided. All hostels are Wi-Fi enabled.

4.5.3 What are the facilities provided by the health center?

The university has on campus a medical dispensary, special medical facilities for ladies and transport facilities for attending to emergency medical requirements. The following are details of the facilities.

Facilities at medical dispensary

1. Dispensary on the campus provides first aid and primary emergency health care
2. One male doctor and one female doctor on part-time basis
3. One Homeo Physician and two Ayurvedic Physicians.
4. MOUs with Manipal Super Specialty Hospital (located within 4 km)

Medical facilities for women

Ladies Waiting Hall is equipped with a cot for emergency use. Emergency supplies meant for women are maintained with a lady staff member of the concerned departments. Names of lady faculty members are

displayed in girls waiting hall of each department for them to seek any help.

Transport Facilities for medical support

A minivan is available on the campus round the clock to attend to any medical requirements of students on the campus or in the hostels.

4.5.4 What are the physical and infrastructure facilities available for the sports and physical education centre?

The university has several sports and games complexes that include an indoor stadium of 38,955 square feet. Table tennis, shuttle courts, chess, caroms, yoga center, gymnasium for boys and girls separately are available in indoor stadium. The following are the details of physical infrastructural facilities for sports and physical education.

S.No	Type of Facility	Number of Fields	Space in Sq feet	Sport/Game Played
1	Volley Ball	4	11,376	Volley ball
2	Basket Ball	1	6,410	Basket Bal
3	Gymnastics	1	4,875	Gymnastics
4	Lawn Tennis	2	3,600	Lawn Tennis
5	Throw Ball	2	8,100	Throw Ball
6	Net Ball	1	6,360	Net Ball
7	Tenni Coit	2	1,196	Tenni Coit
8	Kabadi	1	3,111	Kabadi
9	Kho – Kho	1	7,738	Kho – Kho
10	Cricket Net Practice	3	7,200	Cricket
11	Field	1	1,60,000	Cricket, Foot Ball, Hockey, Athletics etc;

4.5.5 How does the institution ensure participation of women in intra and inter institution sports competitions?

The university provides reservation to admit the women with expertise

and certificate of achievement in various games and sports. The university is also extending scholarships to the women who participate in sports and games.

All the women students are made aware of the importance of participating in intra and inter institution sports competitions. The women also are made aware about the benefits that they get by participating and obtaining excellence in sports and games. They are made aware about the support that the university will extend to them when they participate in intra and inter institutional events. The interest of the women participating in sports and games is then assessed and the interested women are then shortlisted for imparting specialized training to them.

The institute has separate coaches and a gym trainer for training women for various games and sports. They also encourage the women students to participate in various activities. The women students of the university have won 33 medals during the year 2010-2011.

4.5.6 Does the institution have a workshop / instrumentation centre? If yes, what are the physical and infrastructure facilities available in the centre?

There is a workshop and an instrumentation center in the university. The workshop is equipped with variety of machines that help doing milling, boring turning, facing, fabrication etc. The total space dedicated to the workshop(s) is 11,367 Sq.ft.

In the workshop various types of mechanical operations can be conducted which include machining, black smithy, tin smithy, carpentry, welding, foundry, profile projection and surface finishing.

4.6 Best Practices in the Development of Infrastructure and Learning Resources

4.6.1 Describe the best practices for the development of infrastructure and learning resource adopted by the college with reference to physical facilities and its maintenance / Library as a learning resource / ICT as learning resource and other facilities to create learning ambience?

The Institute has implemented many of the best practices for the development of very good infrastructure and learning resources. The following are the best practices followed by the university in respect to development of physical facilities, library, ICT and other facilities to create learning ambience.

Best practices related to physical facilities and its maintenance

1. Development of infrastructural facilities commensurate with the student strength as per AICTE norms
2. Making available all infrastructural facilities required for all round development of the student
3. Optimum utilization of resources through proper scheduling
4. All infrastructure facilities are created based on the quality than on cost
5. The laboratories which can be shared are centrally located and managed
6. The equipment purchased shall be always of latest make
7. Latest version of software is purchased and maintained.
8. The infrastructure is maintained as per preventive maintenance schedule
9. The outdated equipment is replaced by MODROB Schemes
10. Repairs are undertaken to computer system within turnaround time of 24 hours
11. 100 % backup is provided for uninterrupted operations
12. Backup supply is ensured through different capacities of generators

based on distributed power supply

13. Quality control on the input materials to canteen and hostels
14. Up keep of safety certificates up to date
15. Mineral water is supplied for drinking from a centralized water making and distribution system
16. Efficient transport route planning to cover less distance with more occupancy.

Library as learning resource

1. Make available all the library facilities as much as possible in terms of e-learning resources that include digital libraries, e-books, and e-journals
2. Purchase of latest edition of the books and publicizing the same to all faculty and staff
3. Library hours as per the requirements, especially increasing the library hours during the examinations
4. Interface with other libraries like DELNET for enhancement of the University Library
5. Book bank for SC/ST students
6. Maintaining the latest editions of the books referred in the syllabus
7. Keeping rare and costly books in the reference section
8. Publicity campaign for making the students and faculty know about new arrivals
9. Visiting book exhibitions to locate new editions of the existing titles and to locate new entries.

ICT as learning resource

1. Provision of all the ICT facilities that help the faculty develop state of the art course material before proceeding with delivery of the course
2. Delivering the courses through active learning methods through usage of ICT

3. Use of ICT as much as possible for delivering the courses

Facilities for learning ambience

1. Keeping all the learning facilities neat and clean to make them available even 10 minutes before the commencing of the classes
2. Maintenance all the aesthetics of the class rooms and laboratories
3. Making available the internet connectivity through Wi-Fi at any location within the campus
4. Providing transport facility at different time intervals especially at 7PM, 8PM and 9PM suitable to research scholars.

5.0. Student support and progression

5.1 Student Progression

5.1.1 What is the student strength of the institution for the current academic year? Give the data gender-wise, state-wise and nationality-wise, along with analysis and comments.

The student strength for the current year 2011-2012 for UG programs is 6979, PG programs 663, PhD programs 146, totaling to 7788 students. The details of the current year student strength are duly classified into gender-wise, state-wise, and other countries categories are shown below:

Category	Male	Female	Outside Ap	Foreign
UG	5162	1817	70	180
PG	423	240	5	2
PhD	101	45	12	0
Total	5686	2102	87	182

The demand for the programs being offered by the university is in increasing trend year after year especially because of the university status from the year 2009-2010 and the intake that has been fixed in the year 2009-2010 is being maintained with marginal increase. The increase in student strength is in accordance with the perspective plan and all the facilities commensurate to student strength are maintained by the university as per the norms of AICTE/UGC.

The quality of the students being admitted by the university is good as all the students are admitted based on the entrance tests conducted by the university and by other institutions (JEE, AIEEE, EAMCET, CAT, MAT, PGSET, ISET, GATE etc.) and a minimum of 60% of marks obtained in the

qualifying examination, with 5% relaxation given to the disadvantaged students.

5.1.2 Details of the last two batches of students and their profile (SC /ST, OBC, BC, General etc.,) prefixing the Socio-economic profiles also.

The details of the admissions made in respect to students who fall under the socio-economic category and others are shown below.

Year	SC	ST	OBC	General
2010 – 11	80	15	473	1929
2011 – 12	57	9	518	1934

5.1.3 What percentage of the students on an average progress to further studies? Give details for the last five years.

The details of percentage of student’s progressed to higher studies during the last 5 years are furnished below.

Progression	2006 – 07	2007 – 08	2008 – 09	2009 – 10	2010 – 11
UG to PG	13.65%	10.57%	13.84%	10.72%	14.62%
PG to PhD	3%	2%	3.14%	5.3%	4.3%

5.1.4 What is the dropout rate for the different years after admission?

The dropout rate of the students during last two years is 0.001% which is negligible.

5.1.5 What proportions of the graduating students have been employed for the last three years? Provide placement record for the last three years.

All students who are registered are 100% placed. The details of placement for the last three years are shown below.

Year	Number of Students Placed
2008 – 09	566
2009 – 10	570
2010 – 11	805

5.1.6 How many students appeared/ qualified in UGC-CSIR-NET, SLET, IAS, GATE/ CAT/GRE/TOFEL/GMAT/Central/State services, etc. through Competitive Examinations. (Last two years)

201 students in the year 2009-2010 and 311 students in 2010-2011 have qualified in competitive examinations such as UGC-CSIR-NET, SLET, IAS, GATE/ CAT/GRE/TOFEL/GMAT/Central/State services.

5.2 Student Support

5.2.1 Does the institution publish its updated prospectus and handbooks annually? If yes, what is the information content disseminated to students?

Yes, university publishes a Prospectus and Hand Books annually. The following are the contents that are published in the Prospectus

1. Vision and Mission
2. Functionaries.
3. About KLU
4. Programs offered
5. Institutional details
6. Fee particulars
7. Eligibility criteria & admission process
8. Hallmarks of KLU
9. Special LABS at KLU
10. Facilities at KLU
11. About the student guidance and welfare
12. Details of departments
13. Practice school
14. Research at KLU

The following contents are published in the Hand Book.

1. History of KLU

2. Recognitions and accreditations
3. Organization set up
4. Approaching the key personnel by the students
5. Students life at KLU
6. Development of life skills and inner engineering
7. Student career development and placement
8. Industry interface
9. Students professional development
10. Collaboration with foreign educational institutes
11. Membership with distinguished bodies
12. Central facilities
13. Student discipline
14. Academic flexibility
15. Educational process at KLU
16. Educational programs at KLU
17. Program structures
18. Academic calendar
19. Evaluation through examinations
20. Course work
21. Academic evaluation and grading
22. Attendance, condonation and detention
23. Research at KLU

5.2.2 Does the institution provide financial aid to students? If yes, specify the type and number of scholarships / free ships given to the students last year?

The university provided financial aid in terms of tuition fee waiver to the students of different categories. About 775 Students are provided an amount of Rs. 2, 42, 42,550 as scholarships and free ships by the university during 2010-2011. The fee concessions are progressive from year to year of study of the students.

5.2.3 What type of support services are available to overseas students?

University maintains a separate Foreign Students Cell to provide support services to all overseas students. The following are the support services provided by the cell. As on date the university has 182 foreign students

1. Admission counseling through agents in various countries
2. Student and parent counseling during admissions
3. Conducting special academic sessions in some specific subjects
4. Registering with Regional Registration Officer
5. Organizing Visa Extension Services
6. Operating Special Hostels
7. Arrangement of private accommodation for accommodating special requests
8. Organizing special food and nutrition
9. Providing medical assistance
10. Guidance related to health and medical insurance
11. Organizing travel concessions and assisting in travel bookings
12. Providing the initial assistance to settle down on the university premises
13. Taking care of all information required for submission to statutory bodies

5.2.4 What support services are available to SC/ST students?

The university is providing the following support services to SC/ST students

1. Extending scholarships to the SC/ST students in terms of special fee waiver every year. Ninety-seven (97) SC/ST students have benefitted during the year 2011–12 through the university scholarships amounting to Rs. 4, 83,000.
2. Interfacing with government and other funding agencies regarding sanctioning/disbursement of the scholarships for SC/ST students.
3. Operation of separate book bank in the library
4. Separate attention of the faculty in respect to the students who are weak, during the delivery of different types of courses.

5.2.5 What are the support services made available to differently-abled students?

The following support services are extended to differently abled students

1. Providing wheel chair facility to commute within the university
2. Providing free bus transport from hostel to campus
3. Providing scribes when ever necessary

5.2.6 Does the institution offer placement and counseling services to students?

The university provides placement and counseling services to the students. Two departments namely CSS (Communication and Soft Skills) and IRP (Industry Relations and Placement Cell) which are manned by 29 faculty members have been specially established for this purpose.

CSS department is providing the following services

1. Conducting two courses on communication and soft skills. These courses are included as a part of regular curriculum. These courses cover topics

like verbal ability, quantitative aptitude, analytical and logical reasoning, group discussions and mock/ HR interviews etc.

2. Interfacing with the academic departments for conducting refresher courses related to technical foundation to enhance the technical skills of a student.
3. A rigorous 45 days special training during the summer of 3rd year
4. Counseling the students related to CSS based skills
5. Tracking the students for achievement of excellence in CSS

IRP department is offering the following services

1. Registering the students who need placements and their options in a specific career profile
2. Guiding the students regarding the placement procedures
3. Notifying the schedules of placement to the students
4. Tracking the performance of the students during the process of placement
5. Counseling the students related to placement
6. Placing the students as interns in industrial organizational units for undergoing a course called “Practice School” and thereby enhancing the chances of employability

In addition, the organization identifies a students’ counselor for every 20 students when they join the university. The counselor in addition to academic, research and other counseling also undertakes career and placement counseling.

5.2.7 Is there a counseling service for women students?

Women’s Forum is established in the university campus headed by a lady professor. This forum conducts counseling to women students. The following counseling services are extended by the forum to the women students

1. Educate the women through seminars, workshops, internal meetings on various aspects which include rights of women, reservations, schemes extended by the Government, research schemes providing funding especially to the women, role of women in the society, international women's forums, various women related organizational units, etc.
2. Counseling the women students at the time of admissions detailing various types of protection that are being extended to the women students
3. Counseling the women students on gender based issues
4. Counseling the women on complaints related to rest rooms, medical facilities, recreation rooms, etc.
5. Counseling the women when women related grievances are registered and interface with central complaints and grievances committee for referring such cases when a complaint or grievance cannot be sorted out by the forum.

5.2.8 Does the faculty participate in academic and personal counseling? If yes, how many have participated last year?

The faculty at the university participates in the academic and personal counseling. One faculty member known as counselor/mentor is allotted to a group of 20 students when they join the university. Mentor regularly counsels these 20 students at least once in a fortnight regarding academics and personal problems in addition to many other areas.

Every counseling session is recorded in a counseling record which consists of weekly attendance, internal marks, back log subjects (if any), CGPA, SGPA, etc. If no improvement is noticed even after counseling and after taking corrective action, the counselor shall bring the same to the notice of HOD and the parents of such students. The counseling record is reviewed by

HOD and the academic DEAN periodically.

5.2.9 Has the employment cell encouraged students to be self-employed during the last five years?

The university registers the students who want to be entrepreneurs or who want to participate in their family business. The employment cell encourages all the students to be self employed by way of conducting various seminars and workshops related to entrepreneurship, starting and running a business unit, and availability of self employment schemes, etc. The employment cell is situated within the Entrepreneur Development Cell for organizing the events. The entrepreneur development cell is headed by a Professor-in-charge. The Entrepreneurship Cell conducted 8 events during 2010-2011 and 2011-2012.

In addition to the above, the university started its efforts to establish an Incubation Center headed by a Professor- In-charge.

5.2.10 Does the institution have an alumni association? If yes, what are its activities?

The university has a registered Alumni Association. A separate organization structure is designed and being operated catering to the alumni. Alumni Association has its headquarters on the Campus with several chapters in India and abroad. The Campus Chapter obtains information of graduating students from departments and registers those alumni. It also maintains an Alumni Database. The Alumni Association:

1. Maintains a database of alumni
2. Organizes guest lectures by alumni

3. Registering top alumni working in the industry and interface with the IRP Cell for organizing the placement activities through them.
4. Maintains a website for registering the alumni and to provide a forum for interaction with the alumni
5. Conducts Local Chapter meetings once-a-year
6. Emails, News Letters, Calendar of Events, etc are mailed to alumni
7. Receives suggestions from alumni for university development
8. Celebrates Alumni Day once a year
9. Helps the departments to find the alumni to be members of BOS

5.2.11 List the names of top 10 most renowned Alumni of the university along with their designation?

The first batch of PG students have recently graduated from the university. However KLCE, the erstwhile engineering college of the university, has many renowned alumni. The following are the details of top 10 most renowned alumni of KLU/KLCE.

S.No	Name of the alumni	Organization	Designation of the Alumni
1	Mr. Y. Mohan Babu	Govt. Of AP	Dy. Chief Inspector Of Factories
2	Mr. Venkata Shiva Kumar	Infosys	Software Engineer
3	Mr. K. Ramesh Babu	Eqic.Dias And Mouldes Engineer	Director
4	Ms. Navya Sirisha	HCL	Software Engineer
5	Mr. B. Venkata Ramana	Jasco	CNC Specialist
6	Mr. T. Venkata Satyanarayana	Govt. Of India	Immigration Lawyer
S.No	Name of the alumni	Organization	Designation of the Alumni
7	Mr. K. Leela Ravi Teja	Hyundai	Research & Development
8	Mr. K. Srinivas Raju	Grohe India Pvt. Ltd.	State Head
9	Mr. A. Sudhakar Reddy	Intec	Chief Engineer
10	Mr. Vamshi	Arrow Heads	Divisional Head. Net Division

**5.2.12 Are the alumni contributing to the development of the institution?
If yes, please specify how?**

The alumni are contributing to the university in many ways. Some of the contributions made by the alumni are as follows:

- a) Suggestions to improve syllabi, labs, infrastructure etc.
- b) Serving as the members of Board of Studies (BOS)
- c) Providing general advice related to career-related skills, etc.
- d) Delivering guest lectures
- e) Improving industry-institute interaction
- f) Placing the students
- g) Donation of books for library, equipment, computers, etc.
- h) Facilitating admissions in Foreign Universities

5.2.13 Does the institution has a Grievance/Complaint redressal cell? If yes, what are its functions?

The university operates the Student Grievance/Complaint and Redressal Cell both at department level and at the university level. The department level Student Grievance/Complaint Redressal Committee is headed by HOD and at the university level by DEAN (S&FA). The department level Grievance/Complaint Cell delivers the following functions:

1. Registering the grievances/complaints
2. Take corrective actions by interacting with the related institutional organizational units
3. Refer the grievances/complaint to Central Grievance/Complaint Committee, if the Grievance/Complaint cannot be resolved within one month

5.2.14 List the Number of grievances/complaints redressed during the last two years.

About 30 grievances/complaints are received in the last 2 years and the same are resolved.

5.2.15 Is there a provision for welfare schemes for students? If yes, specify.

Yes. There are welfare schemes introduced by the university that are related to the students. The following are the various types of welfare schemes that have been introduced and being operated by the university.

- a) Fee waiver to meritorious students
- b) Scholarships to economically weaker students
- c) Travel concessions and financial assistance when the students represent the university in various events
- d) Financial assistance to enable the students to present papers in seminars/conferences etc.
- e) Medical assistance
- f) Internal research funding for developing the mini projects

5.2.16 What were the specific measures initiated by the institution to enhance the quality of education with reference to student support and progression?

The following measures are initiated by the institution to enhance the quality of education with reference to student support and progression:

- a) Made available specialized machines or hardware like CNC, Logic State analyzer which are being used by the industry and train the students on the same
- b) Made available specialized software for simulation/emulation, design and testing and train the students on the same

- c) Conducting specialized industry-oriented certificate courses.
- d) Conducting communication and soft skills programs that make the students employable
- e) Conducting bridge courses before the commencement of the programs.
- f) Conducting industrial visits and training
- g) Conducting remedial classes during the delivery of educational programs
- h) Involving the students in research-oriented projects
- i) Involving students in sponsored projects
- j) Encouraging the students to present their research papers in conferences.

In all 442 papers have been presented in seminars and conferences by the students during 2010-2011.

5.2.17 Is there a cell to prevent Sexual Harassment? How effective is the cell?

A separate committee on sexual harassment against women is constituted and is being operated. The committee is headed by a lady professor-in-charge. The committee consists of majority of women members. The sexual harassment committee deals with women related sexual harassment issues.

All the sexual harassment cases are registered and the committee meets and investigates the harassment cases and suitable corrective actions are recommended to the VC for taking immediate corrective actions. The committee is effective. The forum deals with all gender related offenses.

5.2.18 What are the efforts to provide legal literacy to women?

Women's forum conducts seminars/workshops by involving experts in the field of law related to women. They also conduct extension programs in the neighborhood for educating on women related issues.

5.3 Student Activities

5.3.1 What are the incentives given to students who are proficient in sports?

The university is extending several types of incentives to the students who are proficient in sports and games. The following are the incentives that are being extended.

1. 2% of the approved intake seats are reserved for sports-proficient students.
2. Payment of TA and DA to the students representing university in national and international participation.
3. Attendance during the days of participation
4. Conducting remedial classes and internal tests if internal tests are scheduled during participation days.
5. Supply of sports uniform, sports suites and sports kits.

5.3.2 Give details of the participation of the students in sports and the outcome, at the regional, state, national and international levels

The details of student participation in sports and games at regional, state, national and international level and the outcomes achieved by the students are shown below.

Details of student participation in Games and Sports at different levels

Level	No. of students	2011 – 12	2010 – 11	2009 – 10	2008 – 09	2007 – 08
Inter Collegiate	Participated	94	101	106	112	71
	Winner	27	9	28	30	29
	Runner	41	58	51	10	7
	Any other	26	22	25	51	35
Inter University	Participated	22	4	2	0	14
	Winner	01	2	1	0	3
	Runner	04	1	0	0	1
	Any other	05	1	1	0	0
National	Participated	02	1	3	2	3
	Winner	0	0	1	0	1
	Runner	0	0	0	0	1
	Any other	01	1	1	0	0
Zonal Level	Participated	04	0	0	10	0
	Winner	0	0	0	1	0
	Runner	0	0	0	0	0
	Any other	1	0	0	0	0
International	Participated	2	0	0	0	0
	Winner	1	0	0	0	0
	Runner	1	0	0	0	0
	Any other	0	0	0	0	0

5.3.3 How does the institution collect feedback from students for improving the support services?

A feedback system is in practice on the campus for improving the support services. Students can give their suggestions/comments on the support services. The feedback is analyzed and corrective actions are taken for improvement.

Students are the members of university-wide support services committees, which include Transport Committee, Hostel Committee, Library Committee, Sports Committee, Canteen Committee etc., where the students can contribute their ideas for improvement of the support services.

5.3.4 Does the institution collect feedback from employers? If yes, how is the feedback used? Illustrate the outcome.

Industry Relations and Placement Cell (IRP) regularly collects feedback from the employers. This helps in revising the curriculum, modifying the methods of training the students for imparting CSS and technical skills.

5.3.5 Furnish information regarding the participation of students in extracurricular activities and recreational activities?

University conducts 2 major events in an academic year. The events include Technical Event (SAMYAK), and a Cultural Event (SURABHI). The students are also participating in sports and games, athletics and yoga competitions. Students from all over the country participate in the SAMYAK event. Various events like technical competitions, paper presentations, quizzes, model exhibitions, robot competitions, etc. are being conducted as a part of SAMYAK event.

Cultural event is being conducted once in a year and it includes the events like singing, dancing, drama, painting, etc. Sports and games competitions also are conducted as a part of anniversary celebrations. Games like cricket, badminton, table tennis, chess etc., are organized as inter departmental competitions and prizes are distributed on the anniversary day. Students participate in inter collegiate, inter university and international competitions

5.4 Best Practices in Student Support and Progression

5.4.1 Describe the best practices in student support and progression practiced by University in terms of student progression / student support / activities

The university is a pioneer in introducing and implementing best practices related to student progression and student support services.

Best practices related to student progression

1. Monitoring and counseling the progress of placement of the students by using a tracking system
2. Monitoring the progress of the students in relation to the skills required by the industry and tracking the students to acquire such skills
3. Conducting specialized placement-oriented program for a period of 45 days in the summer of 3rd year for the UG students
4. Conducting a crash overview and review of technical skills just before the commencement of the placement activity
5. Counseling the students for self employment and to be entrepreneurs by conducting various types of events that include workshops, seminars etc. by eminent personalities in the industry
6. Specialized training of the students targeting the competitive examinations like GATE, GRE, TOFEL, IELTS, CAT, etc.
7. Financial assistance for the students to participate in conferences

8. Student projects through virtual industry set up within the campus
9. Project execution using the real life and live applications derived from the industry
10. Conducting job-oriented certificate courses
11. Tool based practicing and learning to make the students industry ready
12. Prior industry based training through industrial visits and internships
13. Establishment of special laboratories focused on emerging technologies
14. Inter-disciplinary exposure to the students through open labs and open electives

Best practices related to Student support

1. Extending the concessions to the economically weaker sections considering the merit
2. Operating adequate number of buses in different routes with 10% capacity left over in the buses and timing the commuting of the buses in such a way that all the buses reach the campus at least 15 minutes before the commencement of daily schedule
3. Travel concessions to differently abled persons
4. Round the clock medical assistance through specialist doctors on the campus that include Allopathy and Homeopathy
5. Maintenance of dispensary on the campus stocked with all essential stock of medicines
6. Providing the firefighting equipment.
7. 100% power backup for uninterrupted laboratory practice and class room delivery. Availability of uninterrupted power supply (UPS) for critical equipment such as computers
8. Display of safety measures at different strategic locations.
9. Enforcing the dress code to enable personality development
10. Proper earthing of all electrical installations
11. Arranging food and nutrients as per the requirements of different students, especially the foreign students

12. Appointment of various of coaches to train the students to achieve proficiency at international level
13. Providing accommodation as per the regional requirements of the students.

6.0 Governance and Leadership

6.1 Institutional Vision and Leadership

6.1.1 Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future etc.?

The mission statement of the university is as follows:

To impart *quality higher education* and to undertake research and extension with emphasis on **application and innovation** that caters to the **emerging societal needs** through **all-round development** of students of **all sections enabling them** to be **globally competitive** and **socially responsible** citizens with **intrinsic values**.

The mission statement of Koneru Lakshmaiah Education Foundation defines the institutions distinct characteristics that include needs of the society, social responsibility of the students, it seeks to serve, institution's traditions, value orientation, and the vision for the future.

The mission statement of the university addresses the need for all-round development of the students that enables them to face the global competition. The mission statement includes all considerations that a deemed university must meet. The issue of quality higher education, innovative approaches, high standards of delivery of courses have also been included in the mission statement.

6.1.2 What are the goals and objectives of the institution? How are they made known to the various stakeholders?

The following are the Goals and the Objectives of the organization.

Goals of the University

1. Institutional

Goals

- 1) To be one among the top universities in India
- 2) To build a cadre of globally competent and socially responsible human resource.

Objectives

- i. To achieve all around development of the students in various areas like academics, research, professional skills, entrepreneurship, co curricular and extracurricular activities.

2 Academics

Goals

- 3) To offer higher educational programs, addressing the emerging needs, accessible to all sections of society
- 4) To focus on Science, Engineering, Technology and Management disciplines with in-built specialization
- 5) To deliver academic programs mainly through application driven by following innovative and student centric methods using ICT
- 6) To adopt flexible and adaptable academic models that include cafeteria approach in the design of academic programs

Objectives

- ii. To be a model University for imparting value based education at all four levels i.e., UG, PG, Doctoral and Post Doctoral levels
- iii. To offer academic programs that address the educational requirements of a spectrum of students that includes woman, differently abled, socially backward, employees etc
- iv. To offer appropriate UG and PG programs in open distance learning mode

- v. To identify and introduce a good number of new PG programs in highly specialized as well as emerging areas
- vi. To develop a framework and incorporate science based foundations into the focused academic programs
- vii. To design the entire educational system around a set of widely accepted educational models.
- viii. To offer skill oriented certificate courses to enhance employability of the students
- ix. To incorporate multi-disciplinary studies in academic programs
- x. To deliver courses through information communication Technology (ICT)
- xi. To implement academic delivery systems through effective pedagogy

3) Intellectual/Research

Goals

- 7.** To undertake research in contemporary and emerging areas of national priorities and international concerns.
- 8.** To offer training and consultancy services to various organizations.
- 9.** To contribute to the community development through field based research

Objectives

- xii. To be known internationally through research publications, patents, and books
- xiii. To establish centers of excellence
- xiv. To conduct academic research in the emerging and interdisciplinary areas.
- xv. To develop the research ambience that is conducive to undertake sponsored research programs of National importance.

- xvi. To offer consultancy services to a wide spectrum of industrial organizations.
- xvii. To develop and implement an innovation cell that involves students in research, development and consultancy.

4) Training

Goal

- 10. To design, develop and deliver faculty talent promotion programs including the use of ICT to enhance the competence of teaching fraternity.

Objective

- xviii. To establish academic faculty development centre for the development of quality in teachers.

5) Equity/Access to Disadvantaged

Goal

- 11. Enhancement of capacity and improvement of infrastructure which can attract and facilitate the retention of the students from rural and backward areas as well as disadvantaged and marginalized social groups.

Objective

- xix. Offering scholarships and fellowships for disadvantaged groups.

6) Self Development

Goal

- 12. **KLU has provision for self development of the students.** To cater for the self development of the students through provisions made for self development

Objectives

The self development of the students in KLU will be achieved through the following

- xx. To ensure that the curriculum for all the programs will have provision for self learning through industrial visits, assignments, presentation, peer interactions etc.
- xxi. To provide wide access to knowledge resources, like books, e-books, journals, e-journals etc.
- xxii. To provide access to audio visual facilities and multipurpose labs.

7) Community Development

Goal

- 13. To contribute to the community development through extension activities

Objectives

- xxiii. To organize extension activities, covering the literacy promotion, health awareness and social service
- xxiv. To provide consultancy in the areas of soil testing, power consumption, land use and water harvesting.

8) National Development

Goal

- 14. To produce high quality technocrats, scientists, entrepreneurs, leaders and other professionals.

Objectives

- xxv. To align the academic programs and courses to match the requirements of the nation's goals and development.

- xxvi. To develop research ambience that is conducive to undertake sponsored research programs of National importance.

9) Ecology and Environment

Goal

- 15. To develop sense of responsibility among students on ecology and environment

Objectives

- xxvii. To include suitable topics in the curriculum for creating awareness about ecology and environment and their impact on the climate/environment.
- xxviii. To include a subject on ecology and environment uniformly in all the programs

10) Value Orientation

Goal

- 16. To build character and develop value orientation among the students

Objectives

- xxix. To create a provision in the curriculum on ethics, social responsibilities and moral values
- xxx. To organize seminars, workshops, guest lectures and other co-curricular activities to build value systems

11) Employment

Goal

- 17. To achieve enhanced employability and 100 % placement on a continuous basis.

Objectives

- xxxi. To design a curriculum matching the requirements of industry and a business.
- xxxii. To impart communication and soft skills training to enhance employability
- xxxiii. To provide hands on training to the students through the concept of finishing school.

12) ICT Introduction

Goal

- 18. To integrate ICT in the design of curriculum and instructional process

Objectives

- xxxiv. To incorporate ICT related topics in the curriculum

- xxxv. To lay additional emphasis on the use of technology enhanced learning.
- xxxvi. To make extensive use of Open Education Resources(OER) and web sources
- xxxvii. To provide training to the faculty on ICT enabled teaching through in-house ICT Training Centre.
- xxxviii. To have audio visual centre to develop electronic video/audio lectures
- xxxix. To enhance accessibility through e-learning sites

13) Global Demands

Goal

- 19. To equip students with skills and attributes to meet the changing global demand.

Objectives

- xl. To enhance the capabilities of students through a combination of technical skills, soft skills, contextual learning, problem solving, research orientation and experiential learning.

14) Examination and Evaluation

Goals

- 20. To design and implement highly transparent evaluation system.

Objectives

- xli. To introduce reforms in the system of examination and evaluation that result in high quality assessment.
- xlii. To computerize every facet of examination system.

15) Linkages

Goals

- 21. To establish linkages with various academic, industrial and other organizations to collaborate in the areas of academics, research, consultancy, training, employment and extension.

Objectives

- xliii. To forge collaboration/alliances with global organizations/institutions that creates perfect academic, and research and corporate interface for up-gradation and transfer of knowledge.
- xliv. To establish necessary linkages to implement finishing school as a part of the curriculum.
- xlv. To equip students with a judicious mix of natural ability, creative zeal and professional expertise leading to overall career development.

16) Infrastructure

Goal

22. To build, maintain and enhance the state of the art infrastructure to meet the emerging needs and trends

Objectives

- xlvi. To build and operate a world class state of the art library
- xlvii. To build and operate latest teaching-learning infrastructural facilities.
- xlviii. To provide world class hostel facilities
- xlx. To provide adequate faculty and staff quarters to bring in a residential campus culture

Making the goals and objectives known to different stake holders of the University:

The goals and objectives of the organization are made known to the students through Hand Books and Brochures provided to them at the time of admission. The faculty and staff are apprised of the same during orientation programs. University Officials explain the goals and objectives of the university during student meets, parent meets, alumni meets, etc. The goals and objectives are made known to government bodies and research organizations by circulating the Brochures.

6.1.3 Does the institution have a mission statement and goals reflecting quality? If yes, give details.

The mission statement of the university focuses on quality achievement. Specific goals to achieve quality in education and research have been identified and developed in the perspective plan. The university has a clear plan to achieve highest quality of education comparable to international

standards.

One of the goals related to quality is to develop and internalize a quality assurance system that enhances the overall performance of students, faculty and staff. The objectives related to quality include implementation of a Total Quality Management System that helps assess every element of the education system and provides a platform to set norms at micro level and also provides basis for performance analysis.

6.1.4 What measures has the institution taken to translate quality to its various administrative and academic units?

The university has defined various types of quality measures and the same are internalized by integrating them with various procedures that are executed by administrative and functional academic units for implementing various types of processes. Following are the quality measures defined by the university.

1. Developed a quality policy
2. Developed a comprehensive policy document comprising all the areas of the university system to ensure clarity and transparency
3. Developed a quality management system that clearly defines the processes that are to be used to assure quality.
4. Developed records and document standards for recording procedures, inputs and outcomes
5. Identified all the configuration items on which quality assurance is to be done
6. Developed check lists that facilitate verification and validation
7. The following quality assurance related procedures have been developed
 - a) Change management

- b) Configuration management
 - c) Document Control
 - d) Auditing
8. Reporting non conformity, taking corrective actions, follow-up and monitoring.

The verification and validation process is inbuilt within each of the academic and administrative process and therefore the quality issues are dealt in line with the functional or administrative function execution.

6.1.5 What are the leadership functions of the head of the Institution? How is the leadership system established in the university?

The Head of the Institution of the university is the Vice-Chancellor. He has been entrusted with all the functions as defined by the UGC (Institutions Deemed to be Universities) Regulations, 2010. Following are the functions of VC.

1. To chair all the statutory bodies (Board Of Management(BOM), Academic Council(AC), Planning and Monitoring Board(PMB), Finance Committee(FC)) and help taking administrative decisions.
2. To direct the preparation of agenda items related to all statutory meetings and implement a system to follow the implementation of the decisions taken in those meetings
3. To nominate all the functional heads, i.e., Deans and HODs
4. To constitute all the committees required at university level and oversee their functioning
5. To take all the administrative decisions in accordance with the powers entrusted to him by BOM
6. To supervise, monitor and control all the key issues of the university
7. To direct the development of polices, rules and regulations pertaining to

functioning of all academic and administrative functioning and get them approved and also to supervise their implementation

8. To oversee the functioning of the quality cell and ensure the effective implementation to the highest standards comparable to international standards.

The leadership at the university is established through various officers (VC, Registrar, Finance Officer, Controller of Examinations, and statutory authorities (BOM, A.C, PMB, FC, BOS) as defined in the UGC Regulations. The Vice Chancellor has constituted a hierarchy of leaders to provide decentralized and distributed leadership through appointment of Deans, Associate Deans, Directors, Assistant Directors, Heads of the Departments, and Professors In charges. All the officers of the university function under the direct supervision of VC.

6.1.6 Is the faculty involved in decision-making? If yes, how?

The faculty members are involved in the decision making either by being a member of an authority, or by being an officer, or by being a functional and administrative head or by being an in-charge, or by being a member of a committee. The decision making at the university is hierarchically decentralized. While policy and major decisions are taken at higher levels, regular decisions are taken at the lower levels. Power required for taking decisions is delegated to the faculty at different levels. The details of some of the segments which take the decisions are placed below:

- (i) The Board of Management(BOM) which is the premier administrative

decision making body consists of Two Deans, One Professor and one Associate Professor. The BOM takes all the major decisions of the university.

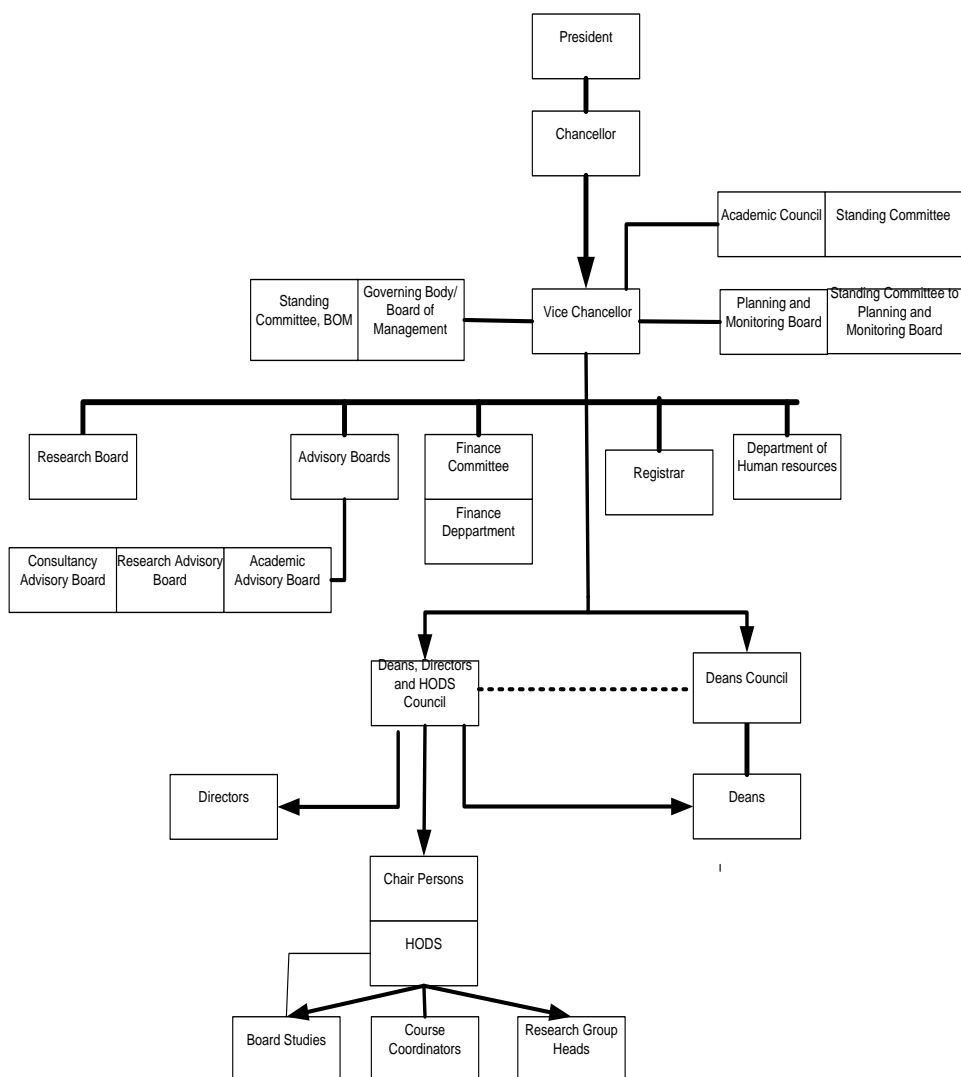
- (ii) The Academic Council (AC) consists of mostly the faculty members of the university, in addition to three outside experts, who are academicians. The Academic Council takes all the major decisions related to academics, research, examination matters etc.
- (iii) The PMB consists of the Dean (Planning & Development) who is a faculty member of the university. There are seven internal members who are all faculty members of the university. The PMB makes all major recommendations related to planning and development
- (iv) The Board of Studies (BOS) consists of mostly faculty members of the department concerned constituted as per UGC (Institutions Deemed to be Universities) Regulations, 2010. The BOS makes recommendations on all academics and research related issues to AC for its approval.
- (v) University Research Board (URB), consisting of senior faculty members, is constituted to take decisions related to research. The URB takes most of the major decisions related to different segments of research in the university
- (vi) Deans and Directors, Associate Deans, Associate Directors and HODs are the faculty members appointed by VC to make functional and administrative recommendations.
- (vii) Professors are appointed by VC to administer centralized issues like sports and games, extension activities, entrepreneur development, alumni development, etc.
- (viii) Several committees such as Discipline Committee, Grievance and Redressal Committee, Anti Ragging Committee, Awards Committee, Canteen Committee, Transport Committee, etc. are constituted by VC to make some important recommendations at central level.

6.2 Organizational Arrangements

6.2.1 Give the organizational structure and the details of the statutory bodies?

The Organogram of the university is placed below. The university has all the statutory bodies in place as defined by UGC that include Board of Management, Academic Council, Finance Committee, Planning and Monitoring Board. VC is the Chairman of all these bodies. The statutory bodies meet at regular intervals and take all the important decisions.

Top Level Organogram of the University



Apart from these statutory bodies, the university has constituted Standing Committees to (a) Academic Council; and (b) Board of Management to discuss at length on emergent issues and take immediate decisions. The decisions taken at the standing committees are later submitted to the respective statutory bodies for ratification.

The university has constituted a research board to take care of all the research issues, and an internal quality assurance cell for achieving highest standards in the delivery of education.

6.2.2 Give details of the meetings held, the decisions made, regarding finance, infrastructure, faculty, academic research, extension, linkages and examinations held during the last year.

The university is conducting all the meetings of statutory bodies as and when necessary as per regulations. Important decisions are taken during these meetings related to finance, infrastructure, faculty, academics, research, extension, linkages and examinations. All the decisions are minuted.

6.2.3 How frequently are the meetings of the different statutory bodies held? What are the major outcomes?

Following are the details of frequency of meetings of statutory bodies of the university.

1. The Board of Management meetings are conducted once in 3 months.
2. The Finance Committee meetings are conducted twice a year.
3. The Planning & Monitoring Board meetings are conducted on 28th August 2009 and 13th June 2011.
4. The Academic Council meetings are conducted 3 times in a year.
5. The Boards of Studies meetings are conducted by the individual

departments twice a year.

The major outcomes of these meetings are the decisions taken in respect of finance, infrastructure, faculty, academics, research, extension, linkages and examinations.

6.2.4 What percentage of the management council's resolutions is implemented during the last year?

All the decisions related to finance, infrastructure, faculty, academics, research, extension, linkages and examinations etc. are fully implemented. VC has instituted all monitoring and controlling mechanisms to ensure that all the decisions taken by all statutory bodies are implemented.

6.2.5 How is the administration decentralized? Illustrate the organization

The administration of the university is designed to be decentralized around the major functions of the institution. The administration is hierarchically decentralized on functional basis. All the administrative actions required for discharging a function are undertaken by the functional heads.

The BOM administers the functioning of the entire organization. BOM is headed by VC who is the chief executive officer of the university. VC's functions are organized into centralized administration through Registrar and decentralization of administration into academics, research, faculty and student affairs, planning and development, finishing school, quality assurance, student placement, and management of admissions, each wing headed by a Dean or a Director.

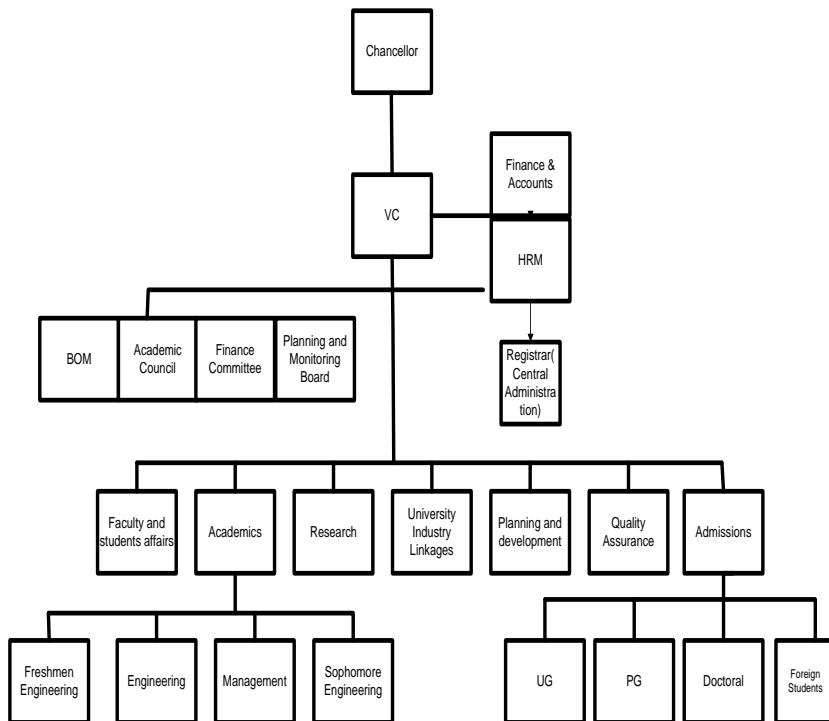
Further decentralized administration is achieved through various committees for managing sports and games, management of foreign students,

management of alumni, management of seminar and convention halls, extension activities, transport management, canteen management, management of library, hostel management, International relations, central stores, purchasing, power supply management, interface with railways and public transport organization, student discipline, entrepreneur development, management of ICT facilities, etc.

The administration related to management of academics, research and other activities at the department level is provided by the Heads of the respective departments.

The organogram depicting the decentralization of the administration is shown below.

Organogram depicting the decentralization of the administration



6.2.6 Does the institution have an effective internal coordination monitoring mechanism? If yes, specify.

The university has an effective internal coordination monitoring mechanism. The university adopts broad based coordination monitoring mechanism when several functions are to be discharged by several persons and that there is dependency of one on the other.

The following are some of the initiatives taken by the university to implement coordination monitoring mechanism

- I. VC monitors coordination between HODs, Deans, Associate Deans, Directors and Associate Directors through a Committee of HoDs, Deans, Associate Deans, Directors and Associate Directors. The committee meets once in a month and discusses issues relating to coordination among the departments, coordination among the Directors and Deans for execution of different processes that are related to academics, research and administration.
- II. VC monitors the coordination between the Deans through a Deans' Council which meets once in a month and discusses issues that need coordination among all the Deans.
- III. HODs monitor the functioning of the course coordinators who are appointed to coordinate the progress and quality of teaching by various faculty members delivering the same subject.
- IV. HODs monitor the functioning of research coordinators who are appointed in each of the department to coordinate the functioning of the members of different doctoral research committees.
- V. HODs monitor the academic coordinators appointed each year for all programs to coordinate the academic delivery by several faculty.
- VI. HODs monitor the functioning of the faculty responsible for coordinating the specific laboratories that are used by students of

different disciplines

VII. The university appoints coordinators and the convener monitors the coordinators every time a major event is to be conducted.

6.2.7 How many times does the management meet the staff in an academic year? What are the major issues discussed?

Meetings of all faculty members are organized at least twice in a semester and the Chancellor and Vice-Chancellor address these meetings. The faculty members are free, in such meetings, to give their views and suggestions. The Chancellor and Vice-Chancellor brief the faculty members about the development activities and future plans. HODs conduct monthly faculty meetings wherein the academic and research issues and the problems or suggestions given by faculty are discussed.

The major issues discussed in all such meetings are - academic, research, administrative matters and problems and suggestions of faculty members, etc.

The Vice-Chancellor also addresses the non-teaching staff once every semester and the issues relating to strengthening of the administration and the general problems and suggestions made by the non-teaching staff are discussed in such meetings.

**6.2.7A What are the norms to extend affiliation to a new institution?
Professional Institutions: Arts, Science and Commerce Colleges**

Not Applicable

6.2.7B What are the procedures for conferring permanent affiliation to a college?

Not Applicable

6.2.8 Does the university have a College Development Council (CDC) or Board of College and University Development (BCUD)? If yes, give the details of its structure and functions.

Not Applicable

6.2.9 How does the university promote 'autonomous status to the affiliated institutions?

Not Applicable

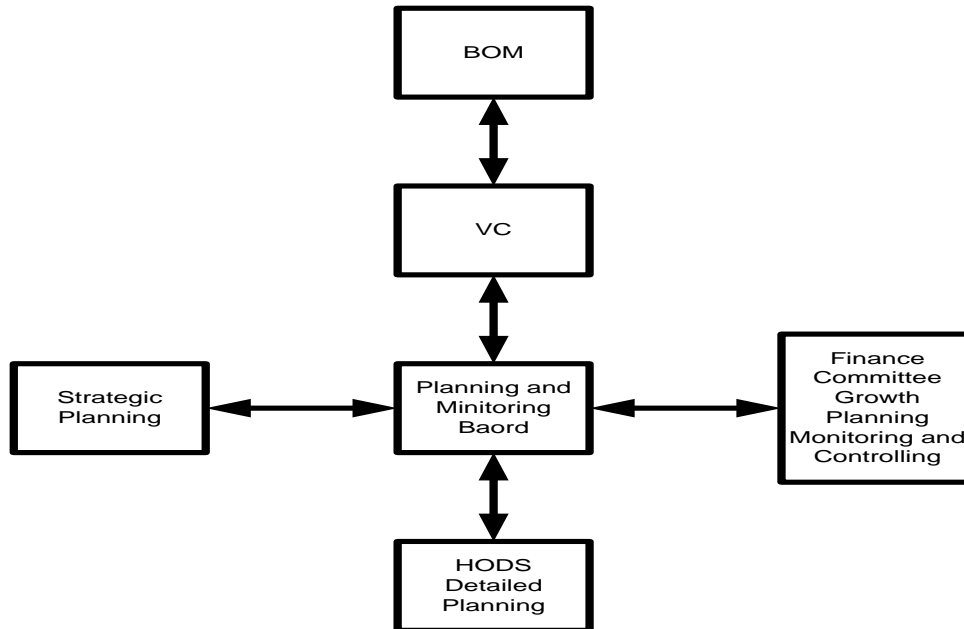
6.3 Strategy Development and Deployment

6.3.1 Does the institution have a perspective plan for institutional development? How are the various constituencies involved in the process of planning

The university has perspective plan developed for the plan period 2009-2010 to 2014-2015. The perspective plan includes various aspects of the institutional development. The perspective plan considers overall growth rates in multiple dimensions and includes strategic, physical, and financial planning of the university.

The planning in the University is a two way process. While the financial allocations based on growth rates are decided at the top level and percolate down to the departmental level and activity level, the actual planning is moved from the department level to the top level and several iterations of the same are undertaken before the consolidation of the plan is finished. The Vice Chancellor (VC), Dean (P&D) coordinates the development and updating of the perspective plan.

Organization for Planning



6.3.2 Does the institution follow an academic calendar? How effectively is it prepared?

The university prepares academic calendar for entire academic year considering the following:

1. 90 instructional days in each of the semesters
2. Timing of the evaluation components based on the design of the delivery system
3. Holidays
4. Phasing of the evaluation components both related to internal and external assessment with provisions for sufficient preparation by the students
5. Non overlapping of the regular and supplementary examinations and proper sequencing of the same considering all the students of different years of the programs

6. Important events such as cultural festivals, technical festival, find a place in the academic calendar.

Planning is done considering each and every calendar day, accounting for minimum number of instructional and working days required and examination days. The type of activity to be conducted is planned and mapped to the calendar day.

6.3.3 During the last five years, specify how many plan proposals were initiated/ implemented? Give details.

Individual plan proposals are initiated for the elements included in the perspective plan by the functionary responsible for the plan items. 15 plan proposals have been initiated / implemented during the last 5 Years.

6.3.4 What are the mechanisms evolved by the university to meet the developmental needs of the affiliated institutions?

At present the university has no affiliated colleges.

6.3.5 How often is the functioning of the affiliated institutions inspected and supervised? When was the exercise done last? Give details

At present the university has no affiliated colleges.

6.3.6 Has the University conducted an academic audit of its affiliated colleges? If yes, give details.

At present the university has no affiliated colleges

6.4 Human Resource Management

6.4.1 How are the staffs recruited? Illustrate the process.

Recruitment of Faculty members

The university determines the number of faculty members to be recruited

based on the existing student strength and the required strength as per AICTE/UGC norms as applicable. Advertisements for the recruitment are released in all the news papers across the country. Applications are received either by mail, by email, by hand and also from job sites. The applicants who meet the minimum qualifications, experience, research, and other achievements required for a teaching post in a cadre as per UGC norms are shortlisted.

Later they are interviewed by properly constituted Selection Committees constituted as per UGC Regulations and the recommendations of the Selection Committees are placed before the BOM for its approval. The selection panel conducts the selections as per the selection procedure and selects the faculty based on performance criteria as laid by UGC. The reservation criteria are also taken into account while recommending candidates for different positions.

Recruitment of non-teaching staff

An advertisement is issued in the local newspapers for various posts viz. Office Assistants, Computer Programmers, Data Entry Operators, Telephone Operators, etc. and interviews are conducted by the Selection Committees headed by the Registrar and other Senior Officers of the university.

6.4.2 How does the University assess the need for staff recruitment?

Need for teaching staff requirement:

The university recruits faculty to maintain the faculty-student ratio of 1:15 for UG, MBA, MCA and 1:12 for the PG programs in engineering. The

university also maintains a cadre ratio of 1:2:6 Professors, Associated Professors and Assistant Professors. The University always maintains better faculty-student ratio and cadre ratio so that surplus manpower is maintained.

The need for the faculty is projected when faculty position falls short of the faculty ratios and cadre ratios. The need is also assessed considering the courses to be delivered, and emerging trends and occurring technologies. The need is also assessed in terms of the adjunct professors when some of the courses to be taught are complex and need wide range of knowledge and experience.

Need for Non- teaching staff requirement:

In case of non-teaching staff, the university has fixed its own norms based on the type of laboratory and the kind of work to be done. The staff strength is evaluated against the norms and if any shortfall exists, recruitment is taken up immediately.

6.4.3 What percentage of faculty is recruited from other institutions, other states and other countries? Give details

The following are the details of the faculty recruited as on 30th December 2011.

1. Percentage of faculty recruited from other Institutions 86
2. Percentage of faculty recruited from other States 2.4

6.4.4 What is the ratio of teachers to non-teaching staff?

The number of faculty members as at the end of December 2011 is 538 and the number of non-teaching staff is 421. The ratio of teachers to non-teaching staff is 1: 0.782.

6.4.5 Does the institution have a 'self – appraisal method' to evaluate the performance of the faculty in teaching, research and extension programs? How far has it motivated the teachers?

The University evaluates the teaching and research performance based on the performance appraisals taken once in a semester. The University has designed excellent performance appraisal system based on the UGC norms. The performance of the faculty is linked to various awards and incentives.

The performance appraisals have motivated faculty immensely as the appraisal system clearly indicate the way and the directions in which the faculty is evaluated. The self appraisal based evaluation system helped in terms of the following:

1. Proper work load distribution of the faculty
2. Effective time utilization
3. Target based working
4. Working on the weak areas
5. Taking the guidance of the seniors
6. Increase in the research publications
7. Increase in the sponsored research project proposals, and funded projects
8. Improvement in the pass percentage
9. Increase in the student satisfaction
10. Increase in the Teacher Training Programs
11. Increase in faculty participation in conferences, workshops, seminars etc.

**6.4.6 Does the institution appraise the performance of the teaching staff?
If yes, specify.**

The members of faculty submit the self appraisals reflecting their performance as against the norms fixed with several parameters once in a semester. All the self appraisals by the teachers are reviewed by HOD followed by DEAN (F&SA) and VC.

The institution also evaluates the faculty in terms of attitude, commitment, timely completion of activities entrusted to them, quality adherence and achievement, contributions to the departments and the University etc.

The appraisals are used for improving the quality of teaching by the faculty in terms of the following:

1. Improvement in systematic and sequenced delivery of the courses
2. Improvement in the deigning of assignments, question papers, laboratory experiments.
3. Effective teaching through implementation of active learning
4. Searching and developing examples which are related to real life
5. Teaching by using electronics aids
6. Teaching by using information communication technologies (ICT)
7. Participating in the subject workshops, thereby improving the comprehension of the subject
8. Taking guidance from senior faculty thereby improving on the weak areas.
9. Delivering seminars in the orientation programs thereby improving the communication skills

6.4.7 Does the institution appraise the performance of the non- teaching staff? If yes, specify.

Yes. The non teaching staff submits self appraisals once in a semester and the same are reviewed by HODs. The recommendations of the HODs are then sent to the Registrar for approval and recommendation of awards and incentives. The non teaching staff members are also apprised at institutional level by HOD in terms of commitment, attitude, and timely completion of activities' entrusted to them

6.4.8 Has there been any study conducted during the last five years by the university / government or by any other external agencies on the functioning of any aspect of academic and administrative management? If yes, give the details of the reports.

UGC Review Committee and Tandon Committee have reviewed the functioning of the KL University. However in the past, the erstwhile college of the university KLCE was reviewed by NAAC, NBA, and ISO 2007. NAAC certified the College with a CGPA of 3.76/4.0. All the UG programs of KLCE have been accredited by NBA, 5 of the programs for 5 Years and 2 of the programs for 3 Years. ISO has certified KLCE successfully for 5 Years. UGC Review Committee made some suggestions to improve the quality of education system at the university.

1. To improve the quality of research publications
2. To enhance effort to procure and conduct sponsored research
3. To introduce specialization in the program offering
4. To streamline the procedures related student admissions
5. To enhance all efforts related to procuring and implementing the consultancy projects

6. To encourage and involve students in Innovative research
7. Admissions to be done on all India basis

The UGC Review Committee has also made the following observations:

1. The teaching learning process has been e-centric which encourages students to be more learning prone.
2. The Institute has implemented a novel approach to transforming freshly admitted students from XII standard to engineering student through its Freshman Engineering Department.
3. The Institute has excellent Air-conditioned Central Library in addition to several department level libraries. The Central Library has a rich collection of books, international offline and online journals, magazines etc to facilitate academic and research work.
4. The entire campus is connected through a Hybrid network which is established through a Local area Network and a Wi-Fi network connecting literally every part of the Institute whether it is class room or Sports complex.
5. The Institute is reputed for maintaining highest standard of faculty student ratio much below the norms of 1:15. As on today the ratio is 1:12.23. The faculty of the Institute is drawn from reputed academic, industry and research organizations.
6. The R&D effort has been increased by many folds with the establishment of specialized and focused Laboratories which are more than 20. More than 75 scholars are pursuing research on the campus alone.
7. The outcome of research in terms of papers published, manuscripts released, Books published is on the increase.
8. The Institute has bagged sponsored R&D projects worth more than 2 crores and many projects are under way. One excellent feature of R&D at KLCE is the participation of UG students from 3rd year itself.
9. The Institute has conducted many international conferences using

infrastructure that caters to more than 500 delegates.

10. KLFEE has established good linkages with the industries and most of the programs and training offered are industry focused. The students are made industry ready through its programs that relate to soft and communication skills. A separate organization unit called CSS has been established with the sole objective of grooming students to be industry ready.
11. Many companies have established Virtual Industry on campus so that the students of the Institute work on the projects of the Industry within the campus. This facility makes the students to get exposed to international standards and develop cultures that are generally followed in any industry of repute.
12. MOUs are also signed with a number of foreign universities to achieve student and faculty exchange and also to undertake inter institutional research.
13. The Institute has a strong Industrial Relations and Placements Department with offices in various cities in India. It looks after the Industry Institution Interaction and placements. 100 % placement of the registered students has been achieved by the Institute, every year, since the academic year 2005-06.

The University has complied with most of the afore said issues even before the reviews are conducted and as such the University has made some of the changes to comply with all the aforesaid issues.

6.4.9 Has the institution conducted any program for skill up gradation and training of the non - teaching staff based on the performance appraisal? Give details

The university has implemented Performance appraisals system for non teaching staff. Skill up-gradation and training requirements of the non

teaching staff have been identified through performance appraisals and accordingly skill upgradation and training programs for non-teaching staff were conducted regularly during the years 2009 - 12. Two skill upgradation programs are conducted during the year 2010-2011 for the non teaching staff

6.4.10 Does the institution conduct staff development program for the teaching staff & non-teaching staff? Illustrate.

The institution is regularly conducting training programs for development of faculty and staff. Faculty and staff development is a continuous process at the university. Sufficient Budgetary allocations are made for faculty and staff development programs.

Nine faculty development programs were conducted during the year 2011-2012 in the fields of emerging technologies, future trends, subject workshops, application oriented teaching, tool based practicing, competency based academic delivery, simulation based development etc. Five development programs for non-teaching staff were conducted during the year 2011-2012 in the fields of programming, usage of tools, equipment maintenance and upkeep, etc.

6.4.11 How are teaching staff encouraged to use the computers, internet, audio-visual aids, computer-aided packages etc.?

The University has implemented active learning methods for delivering different courses to the students. Most of the learning methods require use of computers, internet, audio visual aids, and computer-aided packages. All the faculty of the University have been trained in the use of computers, internet,

information technology, audio visual aids and computer based packages, video conferencing, webinars, simulation based development and delivery

6.5 Financial Management and Resource Mobilization

6.5.1 Provide income / expenditure statement for the last financial year? (Provide the same to the peer team during the on site visit)

The income/expenditure statement for the financial year 2010-11 will be provided to the peer team on the site visit.

6.5.2 Is the operating budget of the institution adequate to cover the day-to-day expenses? If not, how is it managed?

The operating budget of the university is adequate to cover the day-to-day expenses. The University provides imprest money of Rs 5,000 to all HODs and the functional heads for meeting the unplanned day-to-day expenditures. The imprest money is replenished as and when the allotted money of Rs. 5000 is spent. Operational budgets for items such as stationery, consumables are planned and budgeted separately. The University has provided a budget of RS. 15862.4 Lakhs towards the operational budget during the last 5 years.

6.5.3 Is the maintenance budget of the institution adequate with reference to its infrastructure and learning resources?

The maintenance budget of the University is adequate with reference to the infrastructure and learning resources. The University has been undertaking majority of the maintenance requirements with the help of in-house recruited manpower.

6.5.4 Have the accounts been audited regularly? What are the major audit objections and how are they complied with?

The accounts have been audited regularly year after year. No audit objections were raised during the years 2009-2010, 2010-2011, and 2011-2012.

6.5.5 Does the institution have a mechanism for internal and external audit? Give details.

The University has the mechanism implemented for conducting the internal audit as well as external audit. One of the functions of the finance personnel of the University is to conduct internal audit for both physical and financial audit. The accounts department conducts audits such as bank reconciliation, physical audit on inventory etc. The external audit is conducted by recognized chartered accountants who are not employees of the university.

6.5.6 What are the current tuition and other fees?

The student fee includes admission fee, IT infrastructure fee, caution deposit, special fee and tuition fee. The student fee is recommended by a separately constituted Fee Review Committee every year. The committee recommends the student fees based on unit cost of delivering the educational programs. The current tuition fee is Rs. 1.40 lacks per year out of which an amount of Rs. 40,000 is given as scholarship for meritorious candidates. 75% of the students are benefited by this.

6.5.7 How often is the fee revised?

Every year the student fee is reviewed considering most of the cost

elements which are increasing abnormally due to inflation, increase in cost of production, quality enhancement, increase in construction cost, payment of UGC scales, automation etc. The revision of fee is undertaken based on the unit cost which is calculated at the beginning of every year.

6.5.8 What is the quantum of resources mobilized through donations? (Other than block grants) Give details.

No donations are collected by the university.

6.6 Best Practices in Governance and Leadership

6.6.1 Describe best practices in Governance and Leadership adopted by the University in terms of institutional vision and leadership / organizational arrangements/strategies development/deployment of University human resource management/financial management and resource mobilization.

The following are the best practices implemented by the University related to governance and leadership in terms of institutional vision, leadership, organizational arrangement, strategic development, deployment of human resources, financial management, resources mobilization etc.

Institutional Vision

The University has designed the vision statement keeping in view of requirements of higher education system and society needs. Vision statement was the foundation on which the education system has been designed

Leadership

1. Leadership has been designed taking into account the authorities and officers as specified in the UGC Regulations 2010
2. Leadership is designed and implemented as per functional and administrative requirements

3. The leadership is hierarchically designed and implemented
4. The leadership is transparent and implemented based on well defined policies of the University

Organizational Arrangement

1. Various organizational units have been designed and hierarchically organized duly defining the line and matrix functioning
2. The powers and responsibilities have been defined at each of the levels.

Strategies

The university has implemented several strategies to achieve the following

1. Development and implementation of faculty development and retention policy.
2. Implementation of 6th Pay scales.
3. Appointment of educationally eminent personalities as the advisors of the University.
4. Recruiting highly qualified faculty preferably with Ph.D qualification.
5. Enhance the expertise by expanding the linkages with foreign universities and professors
6. Always maintain surplus manpower, so that the faculty student ratio is much better.
7. Align the research with National priorities.
8. Modulate the programs as per industry requirements.

Deployment of Human Resources

1. Recruit and make available manpower resources as per norms
2. The manpower strength is auto approved. Sanction strength is always the required strength.
3. The subject distribution for faculty is done as per their specialization.
4. The first courses in any branch of engineering are handled by the senior most persons.

Financial Management

1. Fix the student fee based on unit cost of delivery of educational programs
2. Make available adequate budget for meeting the capital, operational and maintenance budgets in commensuration to perspective plan
3. Implement excellent budgeting and financial accounting systems.

Resources utilization

1. The physical resources are allocated as per student strength.
2. The resources to be shared between classes are kept at the disposal of the heads of the departments.
3. The resources to be shared between the departments are placed within the purview of the respective Deans.

7.0 Innovative Practices

7.1 Internal Quality Assurance System

7.1.1 What mechanisms have been developed by the institution for quality assurance within the existing academic and administrative system?

The university has implemented the following mechanisms to ensure quality within the existing academic and administrative system

1. Established Internal Quality Assurance Cell (IQAC) headed by the Vice Chancellor (VC) and the Director (Quality Assurance) as the chief coordinator. The cell has a set of faculty who discharge duties as internal auditors
2. Developed a quality policy
3. Developed a comprehensive policy document comprising all the areas of the university system making things clear and transparent
4. Developed a Quality Management System that clearly defines the processes for assuring the quality.
5. Developed metrics with which the outcomes are measured
6. Fixed norms in respect to some of the metrics
7. Developed check lists that facilitate verification and validation
8. Auditing is done for assuring quality.
9. Reporting non-conformity, taking corrective actions, follow-up and monitoring

7.1.2 What are the functions carried out by the above mechanisms in the quality enhancement of the institution?

The quality assurance is directed by the Director, Quality Assurance and the internal auditors designated for the cell. The following are the functions carried out by the IQAC

1. Define and implement quality policy

2. Develop and implement Quality Management System
3. Develop and implement standards, procedures, metrics and norms
4. Develop and implement quality assurance procedures
5. Conduct in-process auditing of configuration items
6. Conduct out-process auditing of the configuration items
7. Monitoring the progress of corrective actions identified to rectify the non-conformity
8. Analyzing and reporting the continuous improvement
9. Interface with quality certification bodies

7.1.3 What role is played by students in assuring quality of education imparted by the institution?

Students play an effective role in ensuring quality by way of quality assessment and reporting through the following ways:

1. Provide feedback on the quality of curriculum, teaching and learning process , support services, and infrastructural facilities
2. Participate in various departmental and university level committees aiding in taking quality decision that are student-centric.
3. Reflect the quality of education rendered by the university through achieving very good academic performance and securing excellent ranks in various competitive examinations

7.1.4 What initiatives have been taken up by the institution to promote best practices in the institution? How does the institution ensure that the best practices have been internalized?

The following initiatives have been taken up by the university in promoting the best practices.

Promoting the best practices

1. Identified the best practices related to most of the dimensions of the university (Academics, research, extension, curricular and co-curricular activities etc)
2. Developed a framework that maps the best practices to the metrics related to the students, faculty, departments and the university.

Internalization of Best Practices

The university has internalized the best practices by way of building them as part of different procedures and processes. The internalization is also achieved through development of standards, metrics and norms. The university has also developed all the policies that enforce the building of best practices into various procedures and processes.

7.1.5 In which way has the institution added value to students' quality enhancement?

The university has added value to the students through enhancing their quality. The quality enhancement of the students is achieved through the following ways

1. Improving the communication and other skills through a separately designed set of courses which are made a part of the curriculum. This has improved the quality of communication.
2. The quality of knowledge of the students is achieved through implementing active learning methods during delivery of various courses
3. The quality is achieved by learning the fundamentals through live examples
4. The quality of students is also enhanced by way of conducting the personality development programs

5. CGPA being one of the quality factors is monitored continuously in the counseling sessions with the students.
6. The students are exposed to a variety of tools so that very high quality academic and research outcomes could be delivered by the students
7. The students are exposed to a variety of real life applications, so the students can acquire knowledge in different domain areas. Good domain knowledge in specific areas has yielded development of high quality projects and term papers.
8. The quality of knowledge of the students is enhanced through industrial visits organized by the university as they learn the concepts in real life applications.
9. The quality of knowledge of the students is enhanced by guest lectures organized by the university as they relate the extension of the subject learnt to advancements and emerging trends
10. The quality of knowledge in specific areas is enhanced as the students learn various directions in which the research takes place through their active involvement along with the faculty
11. The quality of expertise and skills is enhanced due to the specialized training that the students undertake while pursuing certificate courses which are industry-focused and arranged within the campus.
12. The quality of knowledge related to running of industrial establishments is enhanced by entrepreneur cell through intensive training modules.
13. The quality of innovative thinking of the students is enhanced through their participation in innovative projects

7.2 Inclusive practices

7.2.1 What practices have been taken up by the institution to provide access to the students from the following sections of the society?

- a) Socially-backward**
- b) Economically-weaker and**
- c) Differently-abled**

The university policy is to make high quality education accessible to all. Several of the practices detailed below have been taken up by the university to provide access to the students from socially-backward, economically-weak, and differently-abled sections.

a) Practices related to Accessibility to Socially-backward students

- 1. Implementation of Central Government reservation policy during admissions
- 2. Offering scholarships
- 3. Implementing book bank facility.

b) Practices related to Accessibility to Economically-weaker students

- 1. Scholarships to meritorious students
- 2. Assistance in seeking bank loans

c) Practices related to Accessibility to differently-abled students

- 1. Supply of equipment like tricycle to enable easy mobility on the campus.
- 2. Free transport
- 3. Personalized assistance to have access to the library

7.2.2 What efforts have been made by the institution to recruit staff from the disadvantaged communities?

Specify?

a) **Teaching**

b) **Non-teaching**

The following are the efforts made by the university for recruitment of teaching and non-teaching staff from disadvantaged community.

1. Mentioning the reservation policy in all the advertisements released in the news papers and the university web site for recruitment of faculty, and non-teaching staff.
2. Priority is given to candidates belonging to disadvantaged community over others, if found equal in qualification and ability.
3. Relaxation of marks obtained by the SC/ST applicants in qualifying examinations

The following is the representation of the disadvantaged community in the composition of the faculty and non-teaching staff as on December 2011

Community	Faculty	Non-teaching	Total
SC	65	52	117
ST	7	0	7
OBC	94	121	215
Differently abled	5	2	7
Total	171	175	346
Total inclusive of all	538	421	959
% of reserved category to total	31.78	41.56	36.07

7.2.3 What special efforts are made to achieve gender balance amongst students and staff?

The following are the efforts made by the university to achieve gender balance among the students and staff

1. Thirty three percent of seats are reserved for girls during admissions
2. Special care and attention is given to woman applicants at the time of recruitment
3. Maintaining and publicizing existence of separate women protection cell within the university that ensures safe and harmonious work environment for women staff and students.
4. Maintaining and publicizing availability of special amenities for women.
5. Maintaining and publicizing special medical facilities within the campus for women
6. Displaying the profiles of the women faculty working with the university at the time of recruitment

The following are the details of gender balance considering the students, faculty, staff and all as on December 2011

Group	Boys	Girls	Total	Percentage of Girls over Total representation
Students	5686	2102	7788	26.99
Faculty	396	142	538	26.39
Staff	292	129	421	30.64
Total	6374	2371	8745	27.11

7.2.4 Has the institution done a gender audit and/or any gender-related sensitizing courses for the staff/ students? Give details.

The university has been carrying gender audit every year. The statistics show that good percentage of women prefer to join the university. To create a supportive and encouraging atmosphere for women staff and students, the following are implemented within the university

1. Celebration of Women's day.
2. Establishment of Women's Protection Cell(WPC)

3. Conducting workshops and seminars related to woman's legal rights, empowerment etc.
4. Special measures are adopted to prevent ragging of girl students.
5. Displaying special posters on women rights and privileges in corridors by women protection cell (WPC), towards sensitizing male staff and students.

7.2.5 What intervention strategies have been adopted by the institution to promote overall development of the students from rural/ tribal background?

The university believes in maintaining a student friendly approach, especially towards those hailing from underprivileged background. The following are some of the intervention strategies adopted by the university in respect to the students from Rural/Tribal background

1. Personalized coaching to improve communication skills to remove speech inhibitions of students
2. Personalized coaching in the language lab
3. Conducting personality development programs to improve their confidence levels.
4. Conducting personal counseling of the students and helping them to become self confident during placements through participation in student based events

7.2.6 Does the institution have a mechanism to record the incremental academic growth of the students admitted from the disadvantaged sections?

The institution has an effective student information system to record the incremental academic growth of the students admitted from the disadvantaged and all other sections. The following process is being used to record and monitor the academic growth of the students

1. Assess the students in terms of skills, needs and knowledge level right after admissions
2. Recording performance in the internal evaluation of the students in the attendance registers in respect to each of the courses that they study and monitor the progress based on the record
3. When weakness is noticed in the performance, remedial classes are conducted.
4. A faculty counselor is appointed for every twenty students who not only counsel the students but also record the performance of the students right from 10th class stage. The record shows the incremental academic growth right from the beginning of the admissions into programs till the students leaves the campus.
5. Students are also counseled by the Director, (Academic Registrations) in relation to the number of courses they prefer to register. The counseling is done considering the backlogs and CGPA details made available by the controller of examinations at the time of registration.

7.2.7 What initiatives have been taken by the institution to promote social-justice and good citizenship amongst its students and staff? How have such initiatives reached out to the community?

The university is ensuring social justice through various measures. It strives to maintain a nondiscriminatory transparent system of management. The following initiatives have been taken to promote social justice and good citizenship among the students and staff.

Initiatives Taken in respect to the students

1. Reservation to the students of disadvantaged community during admissions
2. Fee concessions to the disadvantaged and economically backward

3. Formation of a student discipline and grievance committee at the department level and university level
4. Implemented transparent evaluation system which involves the students to verify their own performance. The evaluation system has been designed to undertake corrections to the student performance when any mistakes have been carried in the evaluation
5. Implemented a transparent system to assign leadership roles to the students through the process of interviews
6. The students are made members of department and university level committees to project issues related to transport, canteen, hostels, sports, games and library etc.
7. Educating the students on ethics and environment engineering through a compulsory course
8. The students are taught values, ethics, professionalism, qualitative development, target based performance, time management, society and societal requirements, national priorities, rural development, community development, social services, entrepreneur development etc. in the form of various courses, events and practices to make them good citizens
9. Maintaining good health and thinking through yoga practice made available on the campus.
10. Display in the corridors inspiring thoughts and good quotations
11. Availability of book banks in the central library for disadvantaged students

7.2.7 What initiatives have been taken by the institution to promote social-justice and good citizenship amongst its students and staff? How have such initiatives reached out to the community?

Initiatives Taken in respect to staff

1. Provided provisions to recruit the faculty from disadvantaged community.

2. Formation of a faculty discipline and grievance committee at the department level and university level
3. Implemented transparency in awards and rewards system based on performance appraisals
4. Faculty development based on the projections received from them through performance appraisals
5. Promotions are effected based on the predefined policy, rules and regulations and through following a transparent system
6. Conducting the faculty orientation programs to the faculty especially on matters of policy, rules and regulations, do's and don'ts, performance monitoring and controlling etc.
7. Staff members right from the time of induction are made to understand the need to cultivate a fair and unbiased attitude.

7.2.7 What initiatives have been taken by the institution to promote social-justice and good citizenship amongst its students and staff? How have such initiatives reached out to the community?

Student reach to the community

Various initiatives have been taken by the university to inculcate social justice and good citizenship among the students that reached the community through social services, educating the community, helping the industry through good leadership, decision making, participative management, working with ethics and professionalism, rational thinking and motive to be in groups. The students have shown good behavior and exhibited good ethics in every endeavor that they have taken up after graduating from the university.

The students reach the community through medical camps, flood relief camps, educational programs and through conducting field based research.

Faculty Reach to the community

The initiatives taken by the university to inculcate social justice and good citizenship among the staff have reached the community through social justice to the students, , educating the community, helping the industry through excellent students having good leadership, decision making, participative management, working with ethics and professionalism, rational thinking, good group behavior, exhibition of ethics etc.

7.3 Stakeholders Relationships

7.3.1 How does the institution involve all its stakeholders in planning, Implementing and evaluating the academic programs?

For maintaining high academic standards, the institution involves different stake holders (students, faculty, parents, academic peers, alumni, industry experts, employers, and the management) in planning, implementing and evaluating the academic programs. The inputs of the stakeholders are taken and the stakeholders are involved in decision making, the details of which are given below

Planning

1. U.G.C nominee is included in Planning and Monitoring Board which is primarily responsible for planning the academic growth of the university.
2. Faculty are involved as members in the department level academic development committee, members of Board of Studies and planning of academic programs.
3. Industry persons serve on the Board of Studies (BOS) of each of the department
4. The BOS analyses feedback taken from all the stake holders which includes students, academic peers, employers, industry experts, alumni,

parents of the students and the community related to design of curricula and uses the same to discuss and make suitable changes in the design of academic programs.

5. The university Academic Council which is one of the authorities of the university has faculty, industry personnel and academic peers as members and serve in the decision making process related to framing academic rules and regulations, introduction of new programs, approving and suggesting modifications to the design of academic programs, academic calendar, examination results etc.
6. Central Govt. nominees are included in the BOM and Finance Committee who approve the decisions taken by the Academic Council.

Implementation

1. The academic peers, industry persons, and foreign professors are involved in conducting subject based guest lectures and workshops
2. Industry persons and alumni are involved in guest lectures on emerging trends
3. Students are involved in delivering the seminars, participating in the process of active learning and being the project leaders
4. Faculty are involved in implementing the programs as designed
5. Director (Registration) is involved in implementing the program based registrations
6. Professors, academic peers, industry persons are involved in faculty development programs.
7. Faculty involve in course coordination
8. Dean (ACA) is involved in the entire academic management

Evaluation

1. The University is taking feedback from the students related to performance of the faculty to effect the necessary changes.

2. The feedback of the industry persons is taken on the academic performance of the students, skill levels, emerging trends and then suitable changes are made in the curriculum
3. External faculty is involved in paper setting, evaluation of the answer sheets, projects, theses and dissertations, conducting the lab examinations etc.
4. Performance of the students is evaluated through conducting several evaluation components by the faculty
5. Faculty, Course Coordinators, HODs, Dean(ACA) are involved in awarding grades to the students

7.3.2 How does the institution develop new programs to create an overall climate conducive to learning?

The institution takes broad and constructive measures to ensure overall conducive learning climate on the campus through development and implementation of the new programs. The university always considered new programs based on the following principles

1. The programs are designed in such a way that the students are specialized and focused as they move from UG level to Doctoral level
2. New programs are always designed keeping in view the latest and emerging trends in technologies, industry requirements and national priorities
3. New programs are introduced that focus on applications and tool based practicing
4. New programs are designed based on the expected outcomes and competencies
5. Student-centric academic delivery systems are considered while designing the new systems

In addition to the introduction of new programs conducive to learning, the university is conducting many co-curricular programs that make learning much more interesting to the students

1. Guest lectures by eminent persons from industry and academic institutions are arranged to enable the students to learn the 'State of the Art' in the field.
2. Industrial visits and industrial training are arranged for all the students to familiarize them with the industrial practices.
3. Workshops and conferences on latest improvements in different domains are conducted.
4. Expert opinions are taken on the skills currently required for being preferred in jobs and for better performance in competitive examinations. Add-on courses and training programs are modified accordingly.

7.3.3 What are the key factors that attract students and stakeholders resulting in stakeholder satisfaction?

The university has considered several key factors such as Accreditation, infrastructure, faculty, curriculum, placement, performance of the outgoing students, personalized care, student involvement in research, interactive meets, co-curricular activities, extra-curricular activities, professional events, international collaborations etc, that attract the students and other stakeholders to seek admission in the university.

1. National accreditation to the university by renowned organizations such as NAAC, NBA, ISO etc. Further, university is also getting ready for international accreditations like ABET etc.,
2. Availability of impressive infrastructure, comprising modern, aesthetically designed campus, well ventilated class rooms, well

equipped labs, state of the art library, disturbance-free and disciplined environment.

3. Availability of highly qualified and experienced faculty known for their research contributions and knowledge in the latest technologies
4. Competency based design of the curriculum which encompasses the conceptual foundations, problem solving, tool based practice, application development, and practicing the foundations
5. Ability to place all the eligible and registered students for employment with industrial units.
6. High performance of the admitted students in terms of CGPA.
7. Personalized care and motivation to the students through counseling. Faculty counselors give personalized care and attention to students and motivate them to perform well in their studies.
8. Organizing interactive meets for students with eminent personalities invited from leading MNCs, and R&D Organizations.
9. Encouragement to the students to take part in various co-curricular and extra-curricular activities
10. Offering certificate courses that help the students to be industry ready
11. Involvement of the students in research through encouraging them to be innovative and be in a position to develop the innovative ideas.
12. Conducting professional events especially international conferences, workshops and seminars

7.3.4 How does the institution elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co - curricular activities, research, community orientation the personal/ spiritual development of the students?

The stake holders of the university include students, faculty, parents, academic peers, alumni, industry experts, employers, and the management. In its endeavor to develop the students into holistic personalities with overall

development, the institution has developed a broad – based curriculum supplemented with a wide spectrum of co-curricular, research, and community orientation, personal and spiritual development. The cooperation of all the stake holders is sought by the university towards achieving the overall development of the students.

Eliciting Cooperation from Faculty

1. Develop policies, rules and regulations related to overall development of the students and make the faculty understand the same through conducting various orientation programs
2. Immediately after recruitment, the faculty members are oriented with the institutional philosophy, Vision, Mission, Short term & long-term goals and objectives to instill a sense of commitment in them towards student betterment and welfare
3. To define the following areas of cooperation of the faculty and make the faculty understand the same through different orientations programs
 - (i) Prepare well and be acquainted with all the tools, equipment and techniques to deliver the academic programs in the most professional manner up to the utmost satisfaction of the students
 - (ii) Be impartial to the students
 - (iii) Be always prompt as per time tables and maintain utmost continuity of academic delivery
 - (iv) To maintain strict discipline among the students
 - (v) To make the students involve in research through their innovative ideas and course work
 - (vi) Be considerate to all the students and always work for their well being and prosperity
 - (vii) Encourage the students to participate in professional activities

- (viii) Counsel the students and provide directions to overcome their weaknesses
- (ix) Help and facilitate students to complete their work in time
- (x) Help and facilitate the students to learn the latest in technological developments.
- (xi) Train the students with community service orientation and make them complete some community based tasks
- (xii) Conduct programs related to personality development
- (xiii) Explain and make the students to practice yoga thereby enhancing the mental power

Eliciting Cooperation from the students

- 1) All the students are provided with a hand book containing all the details including rules and regulations related to attendance, dress code, conduct of examinations, time management, academic calendar, graduating requirements etc. All the students and parents are requested to read through the handbook thoroughly
- 2) VC, Deans, Directors, HODs conduct an orientation program to the students and their parents on the day of registration and explain to them the kind of cooperation expected from the students and the parents in conducting the education programs effectively. The cooperation of the students in specific is requested from the following perspectives.
 - (i) Maintain proper identification through ID cards
 - (ii) Maintain dress code
 - (iii) Not carrying the cell phones into the university
 - (iv) Being prompt and be in classes before the commencement of any class.
 - (v) Be prompt in submitting the assignments
 - (vi) Acquire as many skills as possible
 - (vii) Adhere to rules and regulations

- 3) HOD meets the students and seek their cooperation in participating in the following areas and explains to them the benefits that the students will get when they participate in such activities
 - (i) Choosing the research areas based on local and national problems such as environment preservation, energy conservation, development of alternative energies etc and picking the topics for term papers and final year projects from those areas
 - (ii) Registration in the professional bodies
 - (iii) Participation in the KLUSO(KLU student organization)
 - (iv) Participate in extension activities
 - (v) Participate regularly in the skill development programs.

Eliciting cooperation from Parents

The university conducts parent meets and elicits their cooperation in the following areas

- (i) To provide feedback on the curriculum, teaching and learning process adopted by the university
- (ii) To provide feedback on infrastructure facilities
- (iii) To respond to the feedback provided by the department regarding the attendance and academic performance
- (iv) To help their wards to adhere to the rules and regulations of the university

Eliciting cooperation from Industrial experts and employers

The university seeks the cooperation of the industrial experts to achieve the following:

- (i) To be Members on the BOS of the departments and offer their suggestions to improve upon the curriculum
- (ii) To help in organizing the industrial training
- (iii) To help in placing the students as interns in their respective organizations

- (iv) To deliver guest lecturers in the emerging areas and specific subject areas.
- (v) To participate in the workshops conducted by the university
- (vi) To provide feedback on the students employed by them and make suggestions to improve various programs and activities conducted for the students

Eliciting cooperation from alumni

The university seeks the cooperation of the Alumni to achieve the following:

- (i) To provide feedback on the curriculum and teaching and learning process
- (ii) To help in placement of the students
- (iii) To help in placing the students as interns
- (iv) To deliver guest lecturers to the students
- (v) To institute awards to the students
- (vi) To participate in alumni meets conducted by the university

Eliciting cooperation from academic peers

- (i) To review the curriculum and suggest changes
- (ii) To be the paper setters
- (iii) To be examiners
- (iv) To be the members of BOS and Academic Council

7.3.5 How does the University anticipate public concerns with current and future program offerings and operations?

The institution continuously monitors the trends and developments going on in the society and industry and also anticipates future requirements through regular interaction with industries. Keeping this in view, the university plans:

1. Developing new add-on courses
2. New training programs

3. New UG and PG programs which are in demand.

7.3.6 How does the institution promote social responsibilities and Citizenship roles among the students? Does it have any exclusive program for the same?

The university has designed several methods and activities to inculcate among the students the social responsibility and to play good citizenship roles. Following are some of the programs initiated and being conducted on social responsibility and good citizenship roles of the students

- (i) To make the students participate in all the extension activities by being a member of one cell or the other
- (ii) To make the students undertake research in the national priority areas
- (iii) To make the students participate in social service related activities by being members of the NSS cell
- (iv) To make the students undertake educational programs to the people in the neighborhood
- (v) To conduct guest lectures on ethical values and social responsibilities
- (vi) To celebrate national festivals and birth days of great people
- (vii) To conduct courses on ethics and yoga within the campus for the physical and mental development of the student
- (viii) To make the students participate in various events and discharge some leadership roles
- (ix) To make the students understand various issues related to social justice and develop the attitude within the students to function within the framework of social justice
- (x) To make the student participate in group activities and discharge group based functions by inculcating the spirit of teamwork

- (xi) To make the students to be innovative and work on the innovative projects

7.3.7 What are the institutional efforts to bring in Community-Orientation in its activities?

Students at every step are encouraged to develop social concern & orient themselves towards community interest. The university not only initiates community welfare activities but also supports them throughout:

- (i) The students are encouraged to join NSS units of the university in large number and render social service such as arranging medical camps etc.
- (ii) The university buses are used to provide transport to patients to attend medical camps conducted by the university.
- (iii) Conduct medical camps regularly on daily basis in 5 Villages adopted by the university
- (iv) The patients are treated for their ailments in the camps and medicines are provided free of cost with the funds provided by the university.
- (v) Occasionally, the faculty and the students of the university visit orphanages and old age homes and distribute fruits and useful articles to them.
- (vi) Tree plantation is also carried out and the importance of afforestation and environment protection is stressed on these occasions.

7.3.8 How does the institution actively support and strengthen the Neighborhood communities? How does the University identify community needs and determine areas of emphasis for organizational involvement and support? How do the faculty and students contribute in these activities?

The university is located in a rural area. It extends active support and strengthens the neighborhood community in education and solves many problems. The university gathers information about the neighborhood

communities from Lead Bank and prepares different programs that address the community requirements

The University is operating an extension center. Some of the people living in the neighborhood are made as the members of various cells that are operated under the control of extension center. The extension center is headed by a professor-in-charge. Students also are nominated as members of various cells in the extension center.

The needs of the local people are studied by the members of different cells in the extension center. The extension center also carries a survey on the needs of the neighboring rural areas. The faculty and students contribute to the development of the neighborhood by conducting various activities that include the following:

- (i) Identification of slum areas and conducting the camps in the neighboring localities and educating the people on health, hygiene and environment.
- (ii) Visit schools in the neighborhood and present books and writing materials to the school children to create enthusiasm in the children about studies.
- (iii) Extend help when people are affected by floods and other natural calamities. Funds for these activities are collected by the members of the extension center
- (iv) Conduct blood donation camps.
- (v) Advice the local farmers on various issues that include pumping, selection of the pipes, usage of the electricity, irrigation systems etc.
- (vi) Test the underground water samples and provide information to the farmers.

(vii) Conduct research studies on the problems of the local area in the fields of pollution control, transportation, irrigation, and pest control

7.3.9 Describe how the institution determines student satisfaction, Relative to academic benchmarks? Does the institution update the approach in view of the current and future educational needs and challenges?

The university has surveyed the availability of academic bench marks. While some of bench marks like K12 exist, they are not quite suitable to be used for university education. The university however has studied all the universities in India and has developed its own academic benchmarks. The key stake holders of the university especially the students and the faculty have been consulted while fixing the benchmarks. The satisfaction of the students is also determined through their attendance to various academic related events, programs, course work and through their achievements in academics, and research.

Student uses the benchmarks for comparing their performance and thereby derive satisfaction in relation to his/her achievement. The benchmarks are updated from time to time considering the current and future educational needs and challenges and the student satisfaction is measured by comparing their performance against the revised benchmarks.

7.3.10 How does the institution build relationships

- 1. to attract and retain student**
- 2. to enhance students' performance**
- 3. to meet students' expectations of learning**

The university is building relationships with the students through a number of ways to attract and retain students, improve performance and to meet their expectation of learning.

Attracting the students

The following steps are taken to attract the students

1. Making available the State-of-the-Art infrastructure
2. Maintaining high profile faculty
3. Develop labs with latest equipment
4. Achievement of 100% placement
5. Increasing the number of firms visiting the university for placement
6. Publicizing the recently introduced internship programs
7. Publicizing the statistics on the students admitted to higher education
8. Conduct as many student based events as possible
9. Publicizing the student and faculty exchange programs
10. Publicizing the participation of the foreign faculty in the university academic and research system
11. Publicizing the achievements of the university students
12. Publicizing the salient features of the university academic system that include change of branch, flexibility in learning, transparency in evaluation, elective streams, open electives etc

Retaining the students

The university has been maintaining many of the personal relationships to retain the students. As such the university has negligible dropouts. The university has been adopting many of the activities to retain the students, some of which are detailed below:

1. Continuous up-gradation of the infrastructure
2. Continuous recruitment of high profile faculty
3. Timely completion of the academic programs
4. Flexibility in learning
5. Student centric Teaching and Learning
6. Personal counseling on many facets that include academics, research, extension, placement, skill development, individual attention
7. Conducting many of the student based events
8. Involving the students in research
9. Providing opportunities to the students to showcase their talent as the organizers, leaders, team workers etc
10. Involving the students in extension based activities
11. Implementing highly transparent evaluation system
12. Receiving suggestions, and complaints and taking corrective actions in least amount of time
13. Making the students as members in many of the departmental level committees and aiding them to be a part of decision making
14. Receiving and addressing the student grievances
15. Rewarding the best performers

Enhancing student performance

The university has implemented many of the processes that help enhancing the performance of the students, some of which are given below:

1. Continuous tracking of the performance of the students from different perspectives which include attendance, internal evaluation, progress in placements, professional participation, involvement in research, participation in student based events, performance in student groups etc
2. Continuous personal counseling of the students when any of the weaknesses are found
3. Taking corrective actions such as conducting remedial classes to overcome the weaknesses
4. Providing challenging opportunities to the gifted learners
5. Providing opportunities for the slow learners to learn at their own pace and yet complete the program within the time

7.3.11 What is the institution's complaint management process? How does the institution ensure that these complaints are resolved and promptly and effectively? How are complaints aggregated and analyzed for use in the improvement of the organization, and for better stakeholder-relationship and satisfaction?

The university has implemented a separate complaint and grievance management process for the students to deal with. Numbers of sub processes are added into the main complaint and grievance handling process. Following are the details of the organizational units created by the university to address the complaints and grievances raised by the students.

Organizational units for handling the complaints and grievance procedure

1. Creation of departmental level committees that include Transport committee, Canteen committee, Hostel committee, Amenities committee, Library committee, Sports and Games committee etc.
2. A department level Complaints and Grievance Committee that receives the complaints and grievances of the students and takes corrective actions. In case the issues are not sorted out at the department level, the same are referred to university level committee
3. A university level committee is constituted to address complaints and grievances that cannot be resolved by the departmental level committee
4. A women protection cell with a separate body called Women Forum to solve all the women related grievances and complaints.

The complaints and grievance handling procedure

1. Complaints and grievances can be raised by the student representatives in various committees. The same are registered in the standard form and discussed to find corrective actions and the same are recorded in the registration form. Complaint registers are maintained by each department and hostels. Drop boxes are also placed at all the student access points which are cleared once in 2 to 3 days
2. One may enter the complaint in the register or drop the complaint in the specified form in the drop box.
3. Complaints of urgent nature such as student ragging or eve-teasing can be brought to the notice of the officials through phone or e-mail. The phone numbers of officials are displayed in the websites, handbooks given to students and also available in the hostel office. Such complaints are immediately registered in complaint and grievance registration form and an emergency meeting of central level committee resolves the issue.

4. All the registrations forms are collected and sent to departmental level committee. The committee discusses the issues and records the corrective actions. The organizational units responsible for corrective actions are contacted by HOD to take corrective measures. The corrective measures taken are recorded in the complaints and grievance registration books.
5. The complaints and grievances are referred to the university level committee if the department level committees cannot resolve the issue. The central level committee resolves the issues, and records the corrective actions and the same are sent to the registrar who contacts the concerned organizational unit for corrective actions. The corrective actions taken or recorded by the registrar and the registration forms are sent back the department
6. Every department maintains all the complaints and grievance forms.

Analysis of the Complaints

The university level committee analyses all the complaints and grievances and determines all the recurring and frequently occurring complaints and grievances. The committee investigates on the preventive measures to be taken and suggests the modifications made to rules and regulation, policy provision, provision for certain resources etc and recommends to the VC for approval and implementation by the organizational units responsible for implementing the corrective actions.

K L University



NAAC Accreditation - 2012

Part II – Evaluation Report

**Section-C (Departmental
Evaluation Reports)**

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Evaluation Reports by Academic Departments

A. Evaluation report by the Department of Bio Technology

Biotechnology in the simplest and broadest sense is a series of enabling technologies which involve the manipulation of living organisms or their cellular components to derive useful processes and products.

The Department of Biotechnology at KLU was established in the academic year 2002-2003 with a clear cut vision to link basic and applied life sciences with Engineering and Technology.

1. Faculty profile Adequacy and Competence

The Department of Biotechnology at KLU has long enjoyed a reputation as a healthy Department in terms of its highly experienced and committed staff members who exhibit highest level of team work among them. This is attributed to the diversity of expertise among the faculty. The Department has twelve faculty members with Ph. D qualification among other competent faculty with rich profile and is drawn from both industry and academics. The department has Two Professors, Six Associate Professors and Fourteen Assistant Professors. The expertise among faculty correlates the most fundamental science to mission oriented research. Out of the 21 faculty 11 have doctorates, 4 with post Doctoral experience from USA and Europe. 3 of the faculty are directing the sponsored projects.

2. Student profile according to programs of study, gender, region

The Department offers UG program (B. Tech), P.G Program (M. Tech and M. Sc, and Ph. D program in Biotechnology. A balance in gender is maintained while admitting the students into these courses. Students in these courses are from within India and abroad like Africa and Nepal. The ratio of teacher to students is 1:13. 7 Students from abroad are studying in the department.

3. Changes made in the courses or programs

The syllabus is tailor made for the vertical mobility of the students and as per the norms and guidelines prescribed by AICTE and UGC and by reviewing the syllabi of globally reputed institutions offering the subject. The syllabus revision is made based on the recommendations of experts from industry and academics who meet at different platforms like Department Development Council, Department Academic Council, Board of Studies and Advisory committee gatherings. The latest revision was done in the year 2011-12.

4. Trend in the Success rate and dropout

During the last five years, students at all levels have performed well in the examinations and the success rate has been very satisfactory. The pass percentage during the last five years is 98%. The dropout rate is nil.

5. Learning Resources of the Department (Library, Computer, Laboratories)

The Department has eight well furnished and equipped laboratories worth of Rs.1.5 crores and four R& D Centers in the areas of Bioprocess Technology, Plant Molecular Biology, genomics and proteomics and biomedical research with the state of the art equipment to cater to the academic and research needs of faculty and students.

The Department has its own library with 327 books and 15 journal periodicals. A bioinformatics center with 61 systems embedded with specialized software (Schrodinger) serves the need for the students and scholars enrolled in various programs of the department.

6. Enhancement of learning resources

Every year, budget is allocated for the purchase of new equipment for experiments, books and journals. Four new labs were constructed with the state of the art infrastructure in 2011. To enhance the research potential of faculty and students separate R and D Centers were created. The members of

the Faculty have been sent to countries like USA and UK to initiate research collaborations and to attend seminars/symposiums.

7. Modern teaching methods in practice other than lecture method

The faculty members use modern teaching aids viz. use of over head projectors, power point presentation using LCD projectors, exhibit models etc. and related teaching aids.

8. Participation of teachers in academic and personal counseling

Academic and personal counseling to students is done on a regular basis. Students are given guidance in terms of pursuing higher studies, employment and choosing career options. Every member of faculty is assigned a group of 20 students, who regularly counsel them as and when needed. The progress of the students is monitored in terms of their attendance and academic performance. The counselors also guide the students towards good behavior.

9. Details of faculty development programs.

Faculty Training Programs like personality development, language workshops, extending from one week to ten days are conducted for the newly joined faculty every year. Faculty development programs which enhance high impact teaching skills conducted by Wipro Mission 10 X allow the faculty to upgrade their technical and inter personal skills. Eight faculty members have participated in these programs.

10. Participation of teachers in academic activities other than teaching and research

All the faculty members of the department become members of different committees. In addition to teaching and research, the faculty members contribute in normal functioning of the department by taking up different administrative activities. Some of these activities include placements, counseling, industrial training and Practice Schools etc.

11. Collaborations with other Departments and institutions at National and International level

- Joint INDO US collaborations for Research and Development in areas of CO₂ Sequestration, Algal Bioplastics, Biopolymers and Biocomposites, Nutraceuticals and Biofuel with USDA and University of Georgia, Athens, USA (2011-2012).
- In collaboration with LA-Trobe University, Australia, to strengthen the research of plant molecular biology and Tissue culture center (2011-2012).
- To initiate research in biomedical sciences by being a part of the consortium including IISc, Bangalore, India, and center for Biomedical Engineering, University of Oxford, UK (2011-2012).
- Collaborative projects in the areas of Neurosciences and Cardiovascular diseases with NRI Academy of Medical sciences, Guntur, Andhra Pradesh, India (2010-2012).

12. Research and Consultancy, Thrust areas

Research is an integral part of the job profile of faculty involving scholars and students of the department. The thrust areas of Research in the department are Plant Biotechnology, Molecular Biology, Bioprocess Technology and Biomedical Research. The Department of Biotechnology has interaction with various companies that include Sneha Biotech, National Institute of Nutrition, Vibha Seeds etc for Placements, Consultancy, Industrial projects, Industrial visits and Industrial training to both faculty and non teaching staff.

The department with faculty having a blend of expertise in industry and academics have brought out a consultancy brochure, and is actively participating in offering consultancy services in the areas of; Biochemistry, Microbiology, Cloning and Expression , Plant Biotechnology , Pharmaceutical Biotechnology, Bioprocess Engineering and Technology, Environment Impact Management. Two faculty members of the department are actively involved in consultancy and revenue of the order of Rs. 50,000 was generated as a result of this consultancy.

13. Details of Ongoing Projects

The Department's research potential is high. Sponsored projects from the Government of India, UGC, DST and DBT worth of Rs. 95.67 lakhs are

currently in progress. The department has submitted a Proposal to UGC under the **Obama-Singh Knowledge Initiative** for joint research worth of 235,000 USD. A letter of intent for a joint Indo-US proposal has been submitted to National Institute of Food and Agriculture, U.S. Department of Agriculture.

14. Programs by research offered by the Department:

The department offers PhD programs on full time and on part time basis. As on date, two phases of PhD admissions have been completed and 19 scholars have been admitted to the department. Among these 19 scholars, 12 are full time scholars and 7 are part time scholars. The admission of PhD students has given a facelift to the research atmosphere in the department.

15. Publications/ patents of the faculty for the last five years

About five faculty members in the department have filed five patents in Indian, European and International patent offices. Two patents are in collaboration with industry and three patents are individual patents obtained from Ph. D work of faculty and sponsored research projects.

The students of the department along with faculty are involved in publishing papers in national and international journals, a special feature of Biotech Department, KLU. The faculty members have the urge for exploring and applying novel technologies in the integrated way to meet the needs of the nation and rest of the world. The faculty members have also received awards and honors in recognition of their academic and research activities. During the last five years, the faculty members have published 93 papers in peer reviewed journals. The average impact factor is 1.41.

16. Participation of the Department in the extension activities of the university.

The faculty and students of the department participate in social service activities under the social service wing of the university. The university has adopted five villages in the vicinity of the university and every Friday five to eight students accompanied by a faculty member visit the village and conduct sanitary camps, medical camps, health awareness camps, blood donation

camps and related activities. Faculty and students actively take part in organizing SAMYAK (A technical festival), College day and Sports day activities. SPIRIT is a student wing of the Department of Biotechnology that is involved in extension activities like, planting trees to prevent global warming, conducting disease awareness camps and health campaigns.

17. Method of continuous student assessment

The mode of assessment of students is continuous; students are assessed based on class tests, home assignments, sessional exams, quiz, term papers, mini and major projects. 40% marks are earmarked as an internal component for all courses.

18. Placement of the students during the past few years

Students are exposed to sufficient training by the Industry Relation and Placement cell. Students of the department have found placements in companies like TCS, Wipro and Infosys during the last five years. All the students who have registered for placements with IRP are successfully placed.

19. Significant achievements of the Department

The faculty members of the department have received appreciation awards from the management for publishing papers in peer reviewed journals. The students of the department have published 15 papers in peer reviewed journals. One student has won gold medal in the power lifting championships at national level. A student has been invited to Norway for presenting a paper in an international conference. Students have filed 15 idea patents. Students have won accolades and prizes for presenting papers in National and International seminars.

20. Participation of the department in COSIP /COHSSIP /SAP /CAS /DSA /DRS /FIST

The department has plans to participate in one of the schemes that include COSIP /COHSSIP /SAP /CAS /DSA /DRS /FIST

21. Plan of action for the next five years

In the next five years the Department is looking forward to strengthening the R & D environment of the Department by undertaking and involving in the following activities

- To establish joint collaborations for Research and Development in areas of Algal Bio-plastics, Biopolymers and Bio-composites
- In collaboration with LA-Troube University, Australia, to strengthen the research of plant molecular biology and Tissue culture center.
- To initiate research in Biomedical sciences by being a part of the consortium including IISC, Bengaluru, India, and Center for Biomedical Engineering, University of Oxford, UK.
- Collaborative projects in the areas of Neurosciences and Cardiovascular diseases with NRI Academy of Medical sciences, Guntur, Andhra Pradesh, India.

22. Any other highlights

- The Department has four post doctoral fellows from reputed institutes in United States and Europe like University of Wisconsin, Madison, USA, John Hopkins medical school, USA.
- The Department has purchased special Schrodinger Molecular Modeling and drug design software during 2009-10, worth Rs.4 Lakhs from Schrodinger LLC, USA and is conducting regular workshops and certificate courses to students.
- One of our students was selected as Microsoft partner in Jan 2010. Students of the department actively participate in the research activities of the faculty and publish papers in national and international journals
- The department has three women scientists under the WOS A scheme of DST and they are contributing to the research environment of the Department.
- Faculty members of the department have written monographs and textbooks related to Biotechnology for UG students. Four faculty members of the department have published textbooks.
- Two faculty members of the department visited the Center for Biomedical Engineering at the University of Oxford, United Kingdom for 15 days (Jan 2012) to initiate collaborative research in area of Biomedical Sciences and Engineering and to explore the possibility of starting a new program in Biomedical Engineering at UG/PG level.

B. Evaluation report by Department of Civil Engineering

1, Faculty profile, adequacy and competency of Faculty

The Department of Civil Engineering was established in 1980. The Department of Civil Engineering has been NBA accredited and ISO 9001:2000 certified. The Department of Civil Engineering is offering B. Tech in Civil Engineering at UG level, and M. Tech in Structural Engineering at PG Level along with Ph. D in all streams of Civil Engineering. The department is maintaining the faculty – student ratio as per Norms of Statutory Bodies. The faculty of the Department is recruited from various premier Institutions like IISc, IITs, NITs etc. There are 7 PhDs among the 24 faculty members.

2. Student profile according to program of study, gender, region etc

Students admitted in to the department are mostly from rural background, qualified in KLUEEE, EAMCET, and AIEEE. There are students from outside Andhra Pradesh, from various parts of the country and foreign students are from Nepal, Bhutan, Srilanka, and South Africa. There are female students from all regions of the country and from abroad. The details of the students are given in the table below.

Course	Boys	Girls	From A.P	Other States	Foreign Nationals
B.Tech (CE)	283	60	287	1	55
M.Tech (Str. Engineering.)	3	-	3	-	-

3. Changes made in the courses or programs during the past five years and the Contribution of the faculty to those changes:

A major syllabus revision was made during 2006-2007, when KLCE became autonomous in 2006. Again in 2009, after the Deemed university status was achieved, we have introduced more flexibilities by increasing the number of industry oriented and advanced courses as electives from the department and outside the department. Practice school has been introduced for one complete semester in the final year. The student is given an opportunity to study 5 courses from the same specialization and almost PG

level of courses were given in their UG, to accommodate the present acute shortage of engineers in the field. Also integrated B. Tech and M. Tech were introduced. In 2011, the curriculum was modified in conformity with international standards by dividing the courses into various disciplines such as basic sciences and engineering science, core and electives, which is being implemented for 2011 admitted batch of students.

4. Trend in the success rate and dropout rate of students during the last five years

In the last 5 years, there are no drop outs of students from the Civil Engineering Department, and the success rate of students is 97.33%.

5. Learning resources of the department like library, computers, laboratories and others:

The department is well equipped with a separate department library with 1235 books and 8 Journals and periodicals including National and International ones. At present, 63 computers are there in the department. All class rooms, faculty cubicles, laboratories are Wi-Fi enabled. There are seven fully equipped laboratories for Structures and Concrete, Soil Mechanics, Transportation Engineering, Environmental Engineering, Engineering Geology, Surveying, and CAD along with Drawing Hall as per the norms of statutory bodies. Every class room is fitted with the LCD and OHP, a TV with DVD player for playing the real videos of recent developments in the fields. The department has movable LCD for conducting the seminars and tutorials and for the demonstration in the Labs. Modern software such as STRUDS, ArcGIS, and Primavera are available in the CAD Lab.

6. Enhancement of the learning resources during the past five years

LCD's were installed in all the class rooms in addition to the OHP's and television which were available earlier. Also various latest softwares such as STRUDS, ArcGIS, Primavera have been installed in the laboratory in addition to the available software such as StaadPro, AutoCAD, Build Master, MATLAB etc. Non destructive testing instruments were added to the Concrete

and Structure laboratory to study the condition monitoring of various concreting elements in the structures. An accelerated curing tank was installed to get the compressive strength of concrete cube in 24 hours instead of 7 days. Benkelman beam, Merlin cycle road profile graph, ring and ball apparatus were added to the Transportation Lab. Three total station equipments were added to the Survey lab. Various tectonic, geological, and satellite maps were added to the Engineering Geology and Remote Sensing Laboratory.

7. Modern Teaching methods in practice other than the lecture method

For almost all courses, lectures are delivered by using power point presentations, and animations, videos of various construction activities in the field. Guest lectures by industry experts, peers from IISc, IITs and other premier Institutes from India and abroad are arranged. Full length course taught by foreign faculty has been conducted for the last 2 years. Frequent industrial visits, tours, and practical demonstration on site are arranged as there is lot of construction activity happening in the university itself as part of its development. In addition, various student seminars, frequent group discussions, quiz programs are organized and students are encouraged to participate in various contests such as paper presentation, quiz, model making, posters etc.

8. Participation of teachers in academic activities and personal counseling of students

Faculty are delivering the courses in a structured manner by preparing course handouts, delivering lectures as per the lesson plan using various tools, providing course material through e-learning, solving the problems, giving the concepts through tutorials. Students evincing interest and potential to participate in extracurricular activities like paper presentation, model making and research activities are being identified, encouraged and guidance is being provided. Students showing poor performance in attendance and academic activities are being identified and counseled and conducted weak student classes on regular basis. Every faculty member is a mentor for 20 to 25

students and continuously monitors the performance and lateral skill development of those students.

9. Details of faculty development programs and teachers who benefited during the past five years

The faculty members are regularly attending faculty development programs being conducted within the university and at other premier institutes. The faculty members have attended about 50 faculty development programs during past 5 years.

10. Participation of teachers in academic activities other than teaching and research students

Faculty are actively engaged in student projects, consultancy and extension activities. The faculty has accomplished 56.4 lacks worth of testing and consultancy during past 5 years. The faculty is involved in the testing and monitoring of the construction activities in the university. The department has organized an International Conference on Advances in Civil Engineering in addition to 3 National Seminars in the last 5 years. Faculty is taking the students to the field for visits and tours. The faculty members also participate in the activities such as admissions, examinations, Time-Table preparation, conduct of department level and university level functions.

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years

- MOU with M/s. Vanoord International and Hazen University Netherlands for training and placement in dredging area. Students joined Vanvoord and are working at several places abroad.
- Prof. Chandra Sekhar Pucha from California State University Spent two weeks and taught a course on ‘Structural Analysis’.
- Dr. Raja Gopal, Dr. Radha Krishna Pillai, Dr. STG Raghukant from IIT Madras, Dr. K. S. Reddy from IIT Kharagpur, Dr. GV Ramana from IIT Delhi, Dr. BVS Viswanatham from IIT Bombay, Dr.

Mallikarjuna, Dr. Suresh Kartha from IIT Guwahati have delivered the guest lecturers to the students on various subjects.

- 15 International Journal papers were published in collaboration with various researchers from other Institutes.

12. Thrust areas of the Research

Thrust areas of research are Remote Sensing and Geographical Information System, Geotechnical Engineering, Water Resources, Watershed Development, Environmental Engineering and Structural Engineering. The department has identified all the researchers into 3 research groups i.e., Structural Engineering, Geotechnical Engineering, and Water Resources & GIS group.

13. Details of the ongoing projects and projects completed during the last five years

The department is concentrating on consultancy projects and efforts are on hand to submit proposals to win some sponsored projects.

14. 'Programs by research' offered by the university

Presently the department is offering a Ph. D program in Civil Engineering.

15. Publications of the faculty, for the past five years. Details regarding citation index and impact factor analysis.

The faculty published 48 papers in the International Journals and 7 papers in the National Journals with an average impact factor of 1.2.

16. Participation of the department in the extension activities of the university.

As a part of extension activities, the department has participated in study of assessment of stability of Galigopuram of Sri Lakshmi Narshimha Swamy temple, Mangalagiri, Guntur District. The department is also involved in testing the quality of water used by residents of Kunchanapalli and Vaddeswaram villages of Guntur District, in activities of NGO in integrated watershed development activities, Masons Training program, traffic volume studies, and road safety awareness camp.

17. Method of continuous student assessment

Continuous internal assessment is done by conducting assignments, surprise tests, regular viva voce in the lab and home assignments and assessing the performance on a continuing basis. The internal assessment is made for 40% and the external assessment for 60%.

18. Placement record of the past students and the contribution of the department to the student placements

100% Placement is achieved during the last five years. Students are given placement training separately and also special care is taken in communication skills. Special courses in skill up-gradation are conducted to improve their employability.

19. Significant achievements of the department or faculty or students during the past Five years

The department organized an International Conference on Advances in Civil Engineering successfully, 270 participants from across the world attended the conference. The students Ms. Tanuja stood National First, and Ms. Madhubala National 4th Place in Yuvaratna awards – 2009, organized by Aditya Birla Group. Again in 2011 Mr. P. Prbhuteja of final year stood Third in the Yuvaratna Awards – 2011. Around 50 prizes were won by the students in various events organized from various Organizations and Institutes.

20. Participation of the department in COSIP/ COHSSIP/ SAP/ CAS/ DSA/ DRS/FIST/ etc.

The department got MODROB funding and Non Destructive Testing equipment has been purchased.

21. Plan of action of the department for the next five years

The following are the plans for actions during the next 5 Years.

- To establish research centre for Geo Synthetics, Geo hazards and Geo Environmental Engineering.
- To increase the number of PG programs.
- To improve the Research and consultancy in all the core areas.
- To apply for more funded projects from DST, MOES etc.,

22. Any other highlights

- Arranging course delivery by foreign faculty and faculty from IIT for selected courses.
- Arranging industrial visits and guest lectures by experts from industry.
- Organizing International Conference on Advances in Civil Engineering.
- Organizing Annual National Level Technical Symposium
- Conducting technical, cultural and social activities through Civil Engineering Association
 - Faculty members have taken membership in various professional bodies and societies such as ISTE, Indian Geotechnical society etc.

C. Evaluation report by Department of Computer Science and Engineering

1. Faculty profile, adequacy and competency of faculty

The department is maintaining the (1:15) faculty ratio stipulated by the statutory bodies. The department has 14 professors, 15 Assoc. Professors and 44 Asst. Professors includes 14 members with PhD. Faculty are from both industry and academics with perfect blend of the specializations in network security, software engineering, data mining, embedded systems and web technologies.

2. Student profile according to programs of study, gender, region etc.

Students who secure good ranks in state level Common Entrance Test, EAMCET, KLUEEE, AIEEE and IITJEE are joining CSE. Boys and girls are joining in equal proportions in the UG program. Most of the students hail from coastal districts of the state while others are from Hyderabad region and other states of India and other countries like Nepal, Bhutan, and Uganda. At present more than 50 students from Nepal, Bhutan and Uganda are studying in the department.

3. Curricular Changes in the B.Tech and M.Tech Programs during the past five years and the contribution of the faculty to the changes.

Syllabus revision has been the hallmark of the CSE Department with emphasis on industrial needs. Senior faculty from all specializations is involved in drafting and finalizing the syllabus. Eminent professors from IITs, NITs and industries are on our Board of Studies. Feedback from different stakeholders is given due importance in revisions. The latest modification was done during August 2011. Flexibility in terms of various streams is being offered by the department, leading to degree with specialization, minor degree, and five year integrated M. Tech degree.

4. Trends in the success rate and dropout rate of students during the last five years.

The student's success rate is above 95% during the previous 5 years with a few drop-outs. The students are being placed in major IT companies like Infosys, HCL, TCS, CTS, and Deloitte since 2005. The placement percentage is 100% for the past five years.

5. Learning resources of the department like library, computers, laboratories and other resources.

All the laboratories of the department are established spaciouly with high end desktops connected in LAN with Internet connectivity and all the Software. The equipment to student ratio is 1:1. Additional experiments are being conducted in each lab to facilitate the students towards more practical exposure. The department has its own Library with 1219 volumes to extend reference facilitates to the faculty and students in addition to the central library. Audio and visual classes are conducted as per the Time-Table. Each faculty member is provided with a computer system with 140 Mbps internet facility. Each student of the department is equipped with laptop using Wi-Fi internet facility which enables them to perform good literature survey through electronic databases.

6. Enhancement of learning resources during the past five years.

Each class room is provided with a LCD projector, audio visual system and white board for ease of delivery for faculty. The department has UG lab, PG lab and special labs namely Microsoft Lab, IBM Lab, Oracle Lab, Cisco lab and Adobe). In all 543 systems with high configuration are provided in these Labs. The department library is having more than 100 video lecture CDs covering more than 12 subjects. The lectures are delivered by eminent professors from different IITs and NITs. The department is extensively using various simulator software packages like NS2 along with latest tools and software like DB2, Rational Suite etc. Special certification classes are being

conducted to the students by the industry giants like IBM, CISCO, Microsoft, ORACLE, Adobe etc.

7. Modern teaching methods in practice other than the lecture method.

Latest teaching methods to meet the Washington Accord Standards are employed by faculty. Blooms Taxonomy is extensively used in this process. Emphasis is on student learning rather than learning by rote. All the class rooms are equipped with LCD projector and audio system. Assignments are given from Journals and Reference Books. Students are allowed to do one Mini Project in all the core subjects. Student's performance is evaluated on a continuous basis through out the semester. Special classes are being conducted for weak students. Summer and/or evening classes are being conducted for students who got F grade. Professional and Certification courses are being conducted as a part of academics.

8. Participation of teachers in academic and personal counseling of students.

An exclusive counseling class is included in the Time-Table in which each faculty is allotted with 20 students. Students are counseled in these classes and problems pertaining to their academic/personal life are addressed. In addition, the weak students are continuously monitored and counseled to attain academic success.

9. Details of faculty development programs

At the beginning of each academic year Teacher Training Program is conducted to train the newly recruited faculty with less than 2 years of experience. During the program senior professors of the university delivers Model Lectures, emphasize the techniques to deliver lectures effectively. Nearly 20 faculty of the department have benefited during the past 5 years. Mission 10X is one of the successful programs conducted by Wipro Technologies in the campus.

10. Participation of teachers in academic activities other than teaching and research.

Every faculty member is attending conferences/workshops regularly to enhance their quality in academics and their research capabilities. Faculty is deputed to industry for training on current technology trends and also involved in delivering extension lectures at conference and seminars. In addition to the academic and research work load, each faculty member shares the administrative responsibilities like admissions, examinations, Time-Tables and other organizational activities.

11. Collaboration with other departments and institutions at the national and international level and their outcome during the past five years.

MOU's are entered into with several leading educational institutes namely Jackson State University, MIT Lowell, USA, Dublin Institute, Ireland, Rutgers State university, Technical University, Romania, National College of Ireland, University of Phymat, U.K, IIT, Bangalore for faculty & student exchange to promote active research.

12. Research and consultancy – Thrust areas

The thrust areas of research are Network Security, Data Mining, Multi-core parallel processing, Software Engineering, Web Technologies, Software Reliability, Embedded Systems, Autonomic Computing, Grid Computing, Rings and Near Rings in Algebra

13. Details of the ongoing projects and projects completed during the last five years

Two faculty members are involved in DST project titled “Side Channel Attacks in Embedded Systems” worth Rs 21.6 lacks with project span of three years.

14. Programs by research offered by the Department

The department is offering four PhD programs by research which includes Software Engineering, WEB Technology, Data warehousing and mining and computer networks and security

15. Publications / Patents of the faculty for the Last 5 Years

The faculty of the department has accomplished 121 Publications during the last 5 Years in reputed Journals which are indexed into reputed databases.

16. Participation of the department in the extension activities of the university.

The faculty and students of the department are actively participating in various extension and social activities for the uplift of the society through FOCUS (Forum of Computer Upcoming Scholars) and NEMSIS (Social service wing). Some of the Activities are Blood Donation, Giving awareness on the power of Vote, Medicine distribution, Cloths and Food distribution for Flood victims, giving general awareness on Computer, Internet and its usage to school children of nearby schools.

17. Method of continuous student assessment

Students are evaluated in all subjects through continuous assessments namely Assignments, Surprise Quizzes, Tests, Group discussions, Tutorials, Seminars, Lab Tutorials, Mini projects etc.. A comprehensive examination is conducted at the end of the semester for each course.

18. Placement record of the past students and the contribution of the department to the student placements.

The department is conducting Certification courses, Add on courses, special classes on Quantitative problems, during semester breaks including summer vacation. The department is responsible in achieving 100% placement for the past 8 years. It is training the students rigorously in qualitative, quantitative, analytical, aptitude tests along with conducting Mock-Interviews, Group discussions, Panel discussions consistently.

19. Significant achievements of the department or faculty or students during the past five years

- ISO 9001:2000 Certified
- NAAC Accreditation with Excellent Rating (3.76 out of 4)
- Accreditation with 'B' grade by Tata Consultancy Services for Placement purposes
- Virtual Industry on Campus with Zensar Tech and 3i InfoTech(CMM level- 5 Companies)
- Securing 3rd prize in all India level project contest TGMC of IBM company
- Campus Connect Program with Infosys
- Academic Initiative and Relations program with IBM to use Licensed Software in academic labs and creating certified professionals on latest technologies and tools.
- Operation of Microsoft I-Spark (Innovation Centre) implementing students innovation ideas as prototypes
- Started CISCO – CCNA Certification course in 2011
- Started a Bi annual “International Journal of Systems and Technology”.
- Recognition by SIRO (Scientific and Industrial Research Organization) of Department of Scientific and Industrial Research.
- All Computer Systems are connected to Powerful Backend Blade Server System.
- Implementation of E- Learning Facility
- Industry- Institution Interaction with MOUs (ECIL, Zensar Tech, 3i InfoTech, Infosys, Platinum Partnership with keen Software Solutions).

20. Plan of action of the department for the next five years.

- To be pioneers in Computer Science & Engineering Education and carryout consultancy services and sponsored research in the specialized areas assuring high quality through computation of the metrics for the same.
- To provide extension services to the local community by undertaking several research programs in problem areas of Rural India through e-services such as e-learning, Tele Health etc.,
- To Establish Excellency Centers in Hybrid Computer Networks, Knowledge Engineering and Parallel Computing

21. Any other Highlights

Apart from B. Tech, the department is also offering Post Graduate programs in Computer Science and Engineering and Computer Networks. The department is also offering Doctoral program in all major areas of

computer science. Many of the faculty members are recognized as Research supervisors for PhD programs by other universities in India. Students are also involved in the research activities of the faculty and in the R&D Projects funded by external agencies. Faculty members of the department have published more than 250 papers during the past few years in different journals and conferences. One faculty member of the department has published 7 Textbooks for BCA course of Acharya Nagarjuna University. The department has organized 2 National Level Workshops and 3 National student level paper presentation contests and 1 international conference.

The department computer center is equipped with Xeon Servers, 90 Workstations connected through Ethernet along with IBM Center of Excellence and Microsoft Innovation Center with 240 systems. Peripherals like Printers including Laser Printer, Scanner, DVD Writer, and Web Camera are available. 145Mbps internet connectivity is available. The Department continuously upgrades all laboratories with the state-of-art equipment & Software

D. Evaluation report by department of Electronics and Computers

1. Faculty profile, adequacy and competency of faculty

The department always maintains the required number of faculty as per the norms stipulated by the statutory bodies. There are Four faculty members with Ph.D qualification in the department. The department has Four Professors, Nine Assoc. Professors, and Twenty one Asst. Professors. The faculty is a perfect blend of different specializations in Image Processing, Embedded Systems, VLSI Design, Wireless Communications, Computer Networks, and Data mining and imparts their expertise in handling diversified courses of the UG and PG programs.

2. Student profile according to programs of study, gender, region etc.

Students who secure good ranks in the State level Common Entrance Test, EAMCET, KLUCET, AIEEE and IITJEE prefer to join the program in comparison to other institutions. There are 235 boys and 178 girls in UG program and 48 boys and 15 girls in the PG program. Most of the students hail from the coastal districts of the state of A.P.

3. Changes made in the courses or programs during the past five years and the contribution of the faculty to those changes.

A major syllabus change has been taken up during 2006-07, under Autonomous status emphasizing on contemporary job oriented courses. Earlier changes have been made in the curriculum under the affiliation of Acharya Nagarjuna University. Senior faculty from all specializations involved in drafting and finalizing the syllabus.

Under Deemed University status, the curriculum is designed by taking suggestions from eminent professors from various IITs and industries and modified from time to time by considering the feedback from different stakeholders. The latest modification was done during 2011. Flexibility in terms of various specializations is offered by the department, leading to ECM with specializations, minor degree and five year integrated M.Tech degree.

4. Trend in the success rate and dropout rate of students during the last five years.

The student's success rate is above 95% during the last 5 years, without any drop-outs.

5. Learning resources of the department like library, computers, laboratories and other resources.

All the laboratories of the department are established spaciouly with additional equipment also. The equipment and student ratio is maintained at 1:1. Additional experiments are being conducted in each lab to facilitate the students towards more practical exposure. There is a department Library with 592 volumes to extend reference facility to the faculty and students. Audio visual classes are conducted as per Time-Table to give information regarding latest technologies in the fields Computer Science & Electronics. Wi-Fi Internet facility is provided to students also, so that they can add literature for the purpose of paper presentations, other colleges also.

6. Enhancement of the learning resources during the past five years.

ECM has two laboratories, out of which the Embedded Systems Lab is improved with additional 50 computers having popular IDEs such as Keil, RIDE, AVR Studio, Top View Simulator TASM etc and with different Target boards supporting Intel 89c52, AVR, PIC, ARM7 (LPC 2148) with various interfacing modules for conduction of Labs, Mini projects and Major Projects.

The Computer Center with 75 systems having LAN Internet facility. Licensed Software Packages like MSDN Universal subscriber, MATLAB, Rational Rose, Oracle 8i, IBM Lotus Suite, Xilinx VLSI Design s/w, Java, Borland c++ Suite and Linux is available to students. ECM shares a few Labs with other Departments also. (Electronics Lab, PDC and IC lab, DSP lab)

7. Modern Teaching methods in practice other than the lecture method.

Audio-Visual Classes are conducted as per time-table to provide information regarding latest technologies in the fields of computer Science &

Electronics. Lesson Plans are made available on KLU Website before beginning each semester for all courses. Course files and Lab Handouts are given to the students to give them overall idea about the course they are going to study. Modern Teaching Facilities such as A_V facilities, LCD and OHP are being extensively used in addition to traditional lecture methods. Students are being trained by conducting extra classes on value addition courses and computer software as per the requirements of the companies visiting the campus for recruitment. All the students (Both UG/PG) use Lap tops and connect to KLU Wi-Fi Network and all courses are being taught through e-learning methodology.

8. Participation of teachers in academic and personal counseling of students.

An exclusive counseling class is included in the Time-Table in which each faculty is allotted with 20 students. Students are counseled in these classes and problems pertaining to their academic/ personal life are addressed.

9. Details of faculty development programs and teachers who benefited during the past five years.

At the beginning of each academic year, Teacher Training Program is being conducted to train the newly recruited faculty with less than 2 years of experience. During the program Senior Professors of the College delivers Model Lectures, emphasize the techniques to deliver lecture effectively. Nearly 15 faculty of the department have benefited during the past 5 years. In addition, Technical Teacher Training Institute (TTTI Chennai) has conducted a series of lectures as a part of training program. The faculty members are also deputed to workshops conducted by other institutions.

10. Participation of teachers in academic activities other than teaching and research.

Faculty involved in university administration as Professor-in-Charges for student counseling, internal examinations, sports, seminar halls, help desk team & admission process during admissions of UG and PG programs and IRP

in charges etc. A good number of faculty members are attending the conferences/ workshops etc. to enhance their quality in academics. To get themselves acquainted with latest technological trends, the faculty also will be deputed to Industrial training during the slack period of the academic year. Guest Lectures by eminent persons from industries and premier institutes are arranged at regular intervals.

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years.

MOU's have been entered into with 4 Industries. The department has also entered into academic tie-up with ECIL, Hyderabad to establish the Industry–Institution interaction for arranging Industrial visits, to take up live Projects and to offer training to the Faculty and Staff.

12. Thrust Areas of research.

Active research is going on in the fields of Digital Image Water marking, Embedded Systems & VLSI Design. The focus areas of the department for R & D activities identified are i) Embedded Systems, ii) Digital Image Processing. R & D Centre has been established in the department to take up Research projects and also to cater to the needs of faculty who are doing their “research work. Students are also involved in the research activities of the faculty.

13. Details of ongoing projects and projects completed during the last five years

The department is presently handling 6 ongoing projects worth 79.95 Lacks.

14. ‘Programs by Research’ offered by the Department

The Department is offering Ph.D., Program in the areas of Image Processing and Embedded Systems.

15. Publications of the faculty, for the last five years. Details regarding citation index and impact factor analysis.

The faculty of the department has published 96 Papers in the reputed Journals which are indexed into renowned databases. The impact factor of the Journals in which the papers are published 0.80 on the average.

16. Participation of the department in the extension activities of the university

KLU has a Social Service Wing which is used to channelize the social service activities of the faculty, staff and the students. It has adopted five nearby villages and conducts activities like medical camps, literacy camps and educates the villagers regarding hygiene and health care, on a regular basis. The department in association with NSS is involved in the following activities

- Blood donation camps
- Fund collection and distribution to poor children and old age homes
- Distribution of old clothes and free medicines to the people of slum areas
- Planting Trees
- AIDS awareness programs
- Collection of relief fund during natural disasters.

17. Method of continuous student assessment.

The mode of assessment of students is continuous; students are assessed based on class tests, home assignments, sessional exams, quiz, term papers, mini and major projects.

18. Placement record of the past students and the contribution of the department to the student placement.

K L University has a separate department **Communication and Soft Skills (CSS)** department which is devoted to developing Communication and Soft Skills of Students. In association with CSS department, the ECM department is conducting the various activities regularly along with academic activities. Additional topics are taught to the students over and above the syllabi for enhancing their domain knowledge. The department is also

conducting Technical classes before the campus placements to refresh the technical skills of the students.

19. Significant achievements of the department or faculty or students during the past five years.

The following are the significant achievements of the department during last 5 Years

- Accredited by NBA of AICTE for three years starting from academic year 2007-08. ECM is the first Department in India to get accreditation from NBA in an institution
- 100% Placement was achieved during the last three academic years and the target is well in approach during present academic year also
- Active research is going on in the fields of Digital Image Watermarking, Embedded Systems and Signal Processing by Eminent Professors of the department.
- An exclusive R&D Centre was established in the Department to take up research projects.
- An exclusive Embedded Systems Lab is established in the department for developing excellence in the area of Embedded Systems.
- The Department has organized two National level Workshops, four student Symposia and one international conference.
- Student's success rate is above 95% during the previous five years.
- Certificate Courses are arranged to add – on value for enhancing the employ ability of the students.
- Additional Laboratories and Extra topics in theory subjects.
- Regular auditing of quality.

20. Participation of the department in COSIP /COHSSIP /SAP /CAS /DSA /DRS /FIST

The department is exploring the possibility of participating COSIP /COHSSIP /SAP /CAS /DSA /DRS /FIST.

21. Plan of action of the department for the next five years.

SHORT RANGE

- a) To have linkages with industry for training & placement, projects and curriculum management.
- b) To inculcate professional behavior in students through seminars, mock interviews etc.
- c) To use modern teaching aids and develop special labs.
- d) To conduct national and international workshops, seminars and paper contests.
- e) To offer PhD programs in two different fields of specialization

LONG RANGE GOALS

- a) To develop a “Center for Excellence” in the design and implementation for applications of Communications, Embedded systems and VLSI Design.
- b) To Offer MS leading to PhD programs in association with a foreign University
- c) To Offer Consultancy services to industries.
- d) To achieve at least 3 patents.
- e) To undertake 2 research programs jointly with a foreign university
- f) To achieve 25% of faculty to be PhDs
- g) To maintain 100% placement of the students year after year
- h) To provide extension services to local community
- i) To groom at least 5 students as Entrepreneurs

E. Evaluative report of the ECE Department

1. Faculty profile, adequacy and competency.

The Department of Electronics and Communication Engineering was started in 1980. The Department of Electronics & Communication Engineering (ECE) has been NBA Accredited and ISO 9001:2000 Certified. The department has highly qualified, experienced and dedicated faculty. There are 10 faculty members with Ph.D qualification. The department has 14 Professors, 20 Associate Professors, 50 Assistant Professors. All the faculty members possess M. Tech qualification from NITs, IITs and from reputed institutions. Specializations of ECE faculty cover all major fields of ECE like Antennas, Communication and Digital Signal Processing, and VLSI. As per Norms of Statutory Bodies, the stipulated Faculty-to-Student Ratio is maintained at all times in ECE.

2. Student profile according to programmes of study, gender, region etc.

Students who secure good ranks in the EAMCET, KLUEEE, AIEEE and IITJEE prefer to join the programs in comparison to other institutions. There are 825 boys and 341 girls in UG program and 84 boys and 34 girls in the PG program. The students are from all corners of Andhra Pradesh and from other states (U.P., Tamilnadu) also.

COURSE	BOYS	GIRLS	OUTSIDE OF A.P.	FOREIGN National
UG	825	258	9	5
PG	38	80	1	0

3. Changes made in the courses or programmes during the past five years and the contribution of the faculty to those changes.

A major syllabus revision was taken up during 2006-07, under Autonomous status laying emphasizing on contemporary, job oriented courses. Earlier, changes have been made in the curriculum under Acharya Nagarjuna University. Senior faculty from all specializations are involved in drafting and finalizing the syllabus. Under Deemed University, the curriculum is designed by taking suggestions from eminent professors from various IITs and

industries and being modified continuously by considering the feedback from different stakeholders. The latest modification was done during 2011. Flexibility in terms of various streams is being offered by the department, leading to degree with specialization and minor degree. There is an effort on the part of the Department to review syllabus in the traditional subjects periodically.

4. Trend in the success rate and dropout rate of students during the last five years.

The students' success rate is above 98% during the previous 5 years, without any drop-outs and 100 % placement record is maintained.

5. Learning resources of the department like library, computers, laboratories and other such resources.

ECE Departmental Library has excellent collection of books, journals and magazines with about 1240 books, 8 national & 14 International Journals, university Question Papers, Model Question Papers, Student Project Reports, Educational CDs and Hand Books for the benefit of ECE Faculty and Students.

ECE department has a dedicated computer centre with 120 systems of latest configuration and software like mat lab, multisim and lab view. All the laboratories of the department are established spaciouly with additional equipment also. The equipment student ratio is maintained as 1:1. Additional experiments are being conducted in each lab to facilitate the students towards more practical exposure. Open labs are also introduced to do innovative projects. Extension of lab timings beyond college hours also helps students to improve their testing capabilities. Audio visual classes are conducted as per Time-Table to gain the information regarding latest technologies.

6. Enhancement of the learning resources during the past five years.

Learning resources developed

- 17- SPECIAL CLASSROOMS WITH AUDIO & VISUAL AIDS

- 1-VIRTUAL CLASS ROOM
- Latest software: - lab view, cadence tools, mat lab, Xilinx, multisim etc.
- 4 RESEARCH CENTRES
 - Centre for Applied Research in Electronics (CARE)
 - Aerospace Communication Research Centre (ASCOR)
 - Liquid Crystal Research Centre (LCRC)
 - Opto-Electronics & Photo Acoustics (OE & PA)

7. Modern Teaching methods in practice other than the lecture method.

- Audio-Visual Classes are conducted as per time-table to provide the information regarding latest technologies.
- Lesson Plans are made available on KLU e-learning site before beginning each semester for all courses. Course files and Lab Handouts are given to the students to give them overall idea about the course they are going to study.
- Modern Teaching Facilities such as Audio-Visual facilities, LCD and OHP are being extensively used in addition to traditional lecture methods.
- Extra training classes are conducted in value addition courses to students to increase their employability skills.
- All the students (Both UG/PG) use Laptops and connect to KLU Wi-Fi Network, and majority courses are being taught through e-Learning methodology.

8. Participation of teachers in academic and personal counselling of students.

An exclusive counselling class is included in the Time-Table in which 20 students are assigned each faculty. Students are counselled in these classes and problems pertaining to their academic/ personal are provided with solutions. The teachers actively participate in academic and personal counselling of the students. Some disadvantaged students or slow learners are observed periodically to help them overcome their deficiencies and improve their overall performance.

9. Details of faculty development programmes and teachers who are benefited during the past five years.

At the beginning of each academic year, Teacher Training Program are being conducted to train the newly recruited faculty with less than 2 years of experience. During the program Senior Professors of the Academic Division will deliver Modules for emphasizing the techniques to deliver lecture effectively. All faculty members of the department have benefited during the past 5 years.

10. Participation of teachers in academic activities other than teaching and research.

A good number of faculty members are attending conferences / workshops etc. to enhance their quality in academics. Faculty members participated in i) Curriculum development ii) Laboratory development iii) Conduct of Examinations and iv) Timetable preparation. To get them acquainted with latest technological trends, the faculty also are deputed to Industrial training during slack period of the academic year. Senior faculty members give guest lecturers in conferences and symposiums in other academic institutions. The department has an Electronic Society named as PULSE, which encourages the improvement of talent of the students through extra-curricular and co-curricular activities with the guidance of the teachers. The Electronic Society organizes sports, quiz programs, industrial visits for the benefit of the students.

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years.

MOUs are entered into with Industries to establish the Industry–Institution interaction for arranging Industrial visits, to take up live Projects and to offer training to the Faculty and Students. Microsoft innovation centre, Innovation cell and dedicated entrepreneurship cell linked with IIT-kharagpur are also serving the students to improve innovation capabilities.

12. Thrust areas of the research

The department of ECE has identified five major Thrust Areas for Research like Antennas, Communication, Digital Signal Processing, Embedded Systems and VLSI.

THRUST AREAS/FOCUS OF RESEARCH PLANS

- To create the research opportunities in the areas of RF, microwave and millimetre wave antenna design, wave propagation, signal processing for radar and secured communication
- To develop efficient and effective state-of-the-art RF products and provide top-level RF engineering consulting services for the national wireless telecommunications industries
- To generate human resources as per industry requirements and standards
- To establish cutting edge RF Test Equipment laboratory with industry collaboration

RESEARCH GROUPS IN ECE DEPARTMENT

1. COMMUNICATIONS

- Microwaves and RF
- Antenna Design
- Propagation

2. SIGNAL PROCESSING

- Digital Image Processing
- Speech Processing

3. VLSI DESIGN

4. ATMOSPHERIC & SPACE SCIENCES

13. Details of the ongoing projects and projects completed during the Last five years.

10 Projects going on now and the details of which are provided below.
Many more projects are in pipeline.

Projects in Progress

- 1) Systematic studies of phase stability in diametric liquid crystals(26.0 lakhs)
- 2) RF front end receivers and spurious/harmonic analysis(8.25 lakhs)
- 3) Design for optimization of phased array antennas(10.263 lakhs)
- 4) Design feasibility study and realization of a single directional antenna for L and S bands(13.44 lakhs)
- 5) Optical studies on nano particles doped liquid crystals(10.98 lakhs)
- 6) Prediction of propagation of impairments for ku and ka band satellite links-real time monitoring and analysis for communication application/services(11.00 lakhs)
- 7) Designing of compact slot antennas for wireless lan applications(20.05 lakhs)
- 8) Experimental studies on ku and ka-band satellite signal propagation impairments(21 lakhs)
- 9) Communication platforms using the low cost transceivers setup's for quick establishment and operation during disaster situations" (*analysis, design, development, implementation and human values*) (20.95 lakhs)
- 10) Web description and building models for sensors to discover knowledge for prediction and decision making(14.79 lakhs)

Projects completed

- i. Carrying out theoretical studies on simulator(4.5 lakhs)2006-2007
- ii. Theoretical studies on phased arrays for satellite links(8.5 lakhs) 2007-08
- iii. Random design (5.82 lakhs) 2007-09
- iv. Development of expert systems for condition monitoring(1.6 lakhs)2007-09

14. Programmes by research offered by the university

The department is offering a Ph.D. programme in ECE covering different fields of research which include Communication, Antennas, VLSI, Embedded systems etc.

15. Publications of the faculty, for the past five years. Details regarding citation index and impact factor analysis.

Year	International journals	National journals	International Conferences	National conferences	Total
2011	84	3	-	4	91
2010	14	5	16	7	42
2009	13	1	-	-	14
2008	3	-	3	-	6
2007	-	-	1	-	7
Total	104	9	20	11	160

Faculty members of the ECE Department have published more than 120 research papers in reputed refereed journals. Some of the papers have impact factor of 3.3. Some senior faculty members are also on the panel of reviewers and panel of editorial boards for international and national journals. Their papers are indexed in important databases like Google scholar, Scribd, Computer Science Directory, ULRICHSWEB, GeonD etc.

16. Participation of the department in the extension activities of the university.

- NSS activities are continuously taken up by NSS cell in central level.
- An organization named HOPE to serve the society is formed to support extension activities. Department involve in activities like distributing old clothes to poor people, supplying medicine to villagers, Conduction of motivation camps for improving literacy ratio in surrounding villages, Distribution of books to orphans.
- PULSE: To enhance student thought processing, student extension activity centre PULSE formed. Conduction of Guest lectures, Design

workshops, Cultural events, Technical club activities are common activities under this extension activity centre.

17. Method of continuous student assessment.

- i. The process of evaluation is continuous throughout the semester and involves components such as sessional tests, quizzes, surprise quiz, case analysis, assignments, and practical examination constituting a total weightage of 40% of total marks.
- ii. Comprehensive Examination carries a total weightage of 60% of total marks.

18. Placement record of the past students and the contribution of the department to the student placements.

- The Communication & Soft skills department is providing courses to improve employability skills of the students.
- During summer extensive coaching for improving technical skills for final year students is carried out.
- Subjects like FIT (Fundamental of IT) are included in curriculum as electives for supporting growing needs of IT sector.
- Conduct of mock exams and mock interviews right from 2nd year onwards to help students to improve their employability skills.

Most of the students got recruited in software companies like TCS, INFOSYS, INFOTECH, HCL, and WIPRO and some in core companies. All registered students for placements got jobs in last 5 years. Some major recruitment statistics are given below.

Name of the organization/company	2008-09	2009-10	2010-11	2011-12
M/s HCL Ltd., On-Campus	14	15	24	35
M/s. TCS Ltd. - On Campus	--	29	61	55
M/s INFOSYS Technologies Ltd- On-Campus	35	21	--	--

Details of Placement

Year	UG Students		
	Registered	Students accepted Placement offers	Students went to higher education even by getting placement offer
2010-11	112	112	--
2009-10	89	85	4
2008-09	120	95	25

19. Significant achievement of the department of faculty or students during the past five years.

- i. **DR.H.KHAN** is Vice-Chairman-IETE, Vijayawada local centre and Executive Committee member-IE(I),Vijayawada local centre .
- ii. **DR.K.SARATKUMAR** earned YOUNG ENGINEER AWARD – Institute of Engineers(India) in the year 2011, USRI Young Radio Scientist-Union of Radio Science International, Belgium and DST-Young scientist Fellowship Award(2009)
- iii. **DR.P.S.BABU** earned ICTP GRANT(2010),EUROPEAN COMMUNITY SEVENTH FRAMEWORK GRANT (2011) and ICTP TRIL FELLOWSHIP(2011))
- iv. **K.CH.KAVYA, I.GOVARDHINI & S.JAYALAKSHMI** secured WOMEN SCIENTIST recognition.
- v. **DR.P.S.BRAHMANANDAM** received BEST THESIS AWARD for his dissertation and POST –DOCTORAL FELLOWSHIP from National Central University, Taiwan.

20. Participation of the department in COSIP/ COHSSIP /SAP /CAS /DSA /DRS /FIST etc.

The department has completed the first level presentation for FIST. Total amount applied is 2.75 crores.

21. Plan of action of the department for the next five years.

- i. To apply for project proposals for various private & government funded organizations.

- ii. To strengthen R&D activities among students and staff in all the thrust areas identified.
- iii. To encourage faculty members to publish papers in national, international conferences and journals.
- iv. To conduct video conference lectures with eminent professors.
- v. To conduct at least two national/international level seminars/workshops per year.
- vi. A proposal to establish an excellence centre in the area of Antennas.

22. Any other highlights.

- i. KLU has been recognized as a SIRO by DSIR of Government of India for its contributions and potential in Scientific and Industrial Research. An exclusive Student Research Centre “Centre for Applied Research in Electronics” was started during A Y 2006-07 to encourage research culture among ECE Students. 45 Students are registered in that Centre and are participating actively in research . Presently research is being carried out on Electronic War Fare.
- ii. The department in addition to its excellence in Academics has very good exposure to research through various outsourcing projects funded by topmost research agencies like DST, UGC, ISRO, AICTE, DEAL, DLRL, etc. The department has also signed MOUs with ECIL, Efftronics, AVANTEL, etc.

F. Evaluative report of the Electrical and Electronics Engineering Department

Department of Electrical & Electronics Engineering offers under Graduate, Graduate and Doctoral programs. It was started in the year **1995** with an intake of 40 students under Acharya Nagarjuna University affiliation. Its intake was enhanced to 60 in the year 1996 and to 120 in the year 2004. At present, the intake is **300** students. The department initiated a PG program with specialization ‘Power Electronics & Power systems’ in the year 2004. Department is now offering Post Graduate program in two specializations ‘**Power Electronics & Drives**’, and ‘**Power Systems**’. The department was accredited by **NBA** in 2004 for **3 years**, reaccredited by **NBA** in 2007 for **5 years**, **ISO 9001:2000** Certified and accredited by **NAAC (3.76/4.00)**.

1. Faculty Profile Adequacy and Competency:

Department of EEE has highly experienced faculty in different specializations such as Power Systems, Control Systems and Power Electronics & Drives. Department has 60 Faculty members out of whom 8 members are having Ph.D qualification. All the other faculty members have M.Tech qualification out of 15 members are pursuing Ph.D as part time scholars. The teacher student ratio is as per AICTE norms.

2. Student profile according to programs of study, Gender, Region

The sanctioned intake of the department for the current academic year is 300 for UG and 80 for PG (two specializations). The present strength is UG-817 (204 Girls + 613 Boys) and PG-44 (16 Girls + 49 Boys). Fifteen students from foreign countries (Nepal, Bangladesh & Bhutan) are pursuing UG program in EEE. Admissions were conducted as per the regulations of the University.

3. Changes made in the courses or programs

The Syllabus for the UG and PG courses are revised as per the requirements of industry keeping in view of recent developments in

technology and societal needs. Academicians and Industry Experts are the members of BOS. Courses are offered in accordance with the student's choice (**Academic Flexibility**). The flexibility provided leads to degree with specialization and minor in other courses. Syllabus is covered uniformly in accordance with the course handouts.

4. Trend in the success rate and drop out

The department is securing a good pass percentage every year. Around 95% of students received UG degree after completion of 4 years consistently. The dropout rate is Zero.

5. Learning resources of the Department (Library, Computer, Laboratories)

The department has 7 laboratories with full-pledged equipments. Additional equipment is also procured in all the laboratories to do additional experiments which are in accordance with the industrial needs. A centralized computer center with 240 systems and Internet facility is provided to meet the needs of the department students. Licensed software packages like MicroSim, MATLAB, MiPOWER, EMTP, PSCAD, ETAP and DigSILENT are available by which students can have exposure to various Electrical Engineering Software application packages. Cut models are used to demonstrate constructional details of machines.

The Department Library has 770 Volumes, 3 National Journals, 12 International Journals, 9 National Magazines, 7 International Magazines, University Question Papers, Student Project Reports, Educational CDs, and Hand Books for the benefit of the Students and faculty of the department.

6. Enhancement of learning resources

- The department has purchased Dig SILENT Power Factory Software with 25 users. This software is helpful to students and faculty to solve different Electrical Power System problems.
- The Power Electronics Laboratory has been equipped with additional equipment for the purpose of research in Electrical Drives.

- In addition to this, class rooms are equipped with LCD Projector and Audio system.

7. Modern teaching methods in practice other than lecture method

The department follows modern teaching methods in addition to the conventional lecture methods. LCD, OHP and audio visual facilities are also available. Faculty makes effective usage of these facilities. All the students have laptops. WI-FI connectivity is available in campus. Information and Communication Technology (ICT) (E-Learning) is being used to communicate with the students.

8. Participation of teachers in academic and personal counseling

Each faculty member is assigned a group of 20 students. They will continuously monitor the student's performance in academic and other activities. This will be more helpful in encouraging the students and to boost their skills by SWOT analysis there by giving counseling and suggestions.

9. Details of faculty development programs

Faculty members are deputed for various development programs like conferences, seminars workshops, teacher training programs, orientation lectures etc. for improving their knowledge. Faculties also have good interaction with industries to get acquainted with latest technological trends.

10. Participation of teachers in academic activities other than teaching and research

Apart from the Teaching and research, faculty participate in various academic activities like curriculum development, developing learning resource material, laboratory development, student assessment and evaluation, co-curricular and extracurricular activities, giving guidance to the students, counseling, continuing education activities etc.

11. Collaborations with other Departments/ Institutions at National & International level

The department is making collaborations with World Class universities to establish mutual exchange programs and to transfer technologies. The university has already signed MOUs with **12** universities in United States of America, **4** universities in United Kingdom, **one** in Australia, **one** in Netherland, **one** in Srilanka, **one** in Canada, **one** in Ireland, **one** in Thailand and few universities in India.

12. Research and Consultancy, Thrust Areas

The major thrust areas of the Department are Power Systems, Power Electronics, Machine Modeling and Drives, Control System Engineering and Renewable Energy sources.

13. Details of Ongoing Projects

- The department has received a grant of Rs. 5.00 Lakhs from AICTE under the Research Promotion Scheme for the project “Switching Control strategies for Direct Torque control of Induction Motor Drives”.
- The department has received a grant of Rs.6.34 lakh from UGC in the year 2008 for the project “Non-Classical estimation techniques for autonomous robots simultaneous localization and mapping in unknown environment”.
- A project proposal is submitted to AICTE under Research Promotion Scheme. Sanction is awaited.

14. Programs by research offered by the Department

The department is offering Research programs in the areas of Control systems, Power Systems, Power Electronics & Drives leading to Ph.D.

15. Publications/patents of the faculty for the past five years

All the faculty members are focused in one or other of the thrust areas to impart effective research and published more than 69 papers in various reputed National and International Journals and conferences.

16. Participation of the Department in the extension activities of the University

- The department established **WEEE** (We Empower Every one for Every cause) which is an independent Social Service Wing, contributing its service to needy people and also creating awareness among the people regarding causes affecting the environment. Apart from this, the department started a good activity of contributing '**A Rupee A Day**' in department to encourage the student to contribute a rupee a day and inculcate the feeling of social service in them. Functions of WEEE are conducting blood donation camps, fund collection and distribution to poor children; old age homes and offers financial support to the students. It also creates awareness on AIDS, Plastics Usage, and Energy Saving Schemes offered by Government.
- The department is regularly conducting the National level Student Fest and Faculty workshops in each semester and planning to organize an International conference in forth coming Academic Year.
- A lot of emphasis is given for the extra-curricular and co-curricular activities of the students. Periods are allocated in the regular timetable for Communication skills, soft skills and Personality development lectures. The department has an EEE Association (APOGEE) under which Group Discussions, Quiz, Paper Presentations are conducted and are organized by students.

17. Method of continuous student assessment

Students are continuously assessed based on the Test 1 & 2, Surprise Quiz, Assignment Test, Home assignments, attendance to the classes and Practical

examination constituting the total weightage of 40% of the total marks. The rest of the 60% weightage is given to the comprehensive examination.

18. Placement of the students during the past few years

- The department has achieved **100% placement** record for the registered students. Our department students are working in ADP, Accenture, Amaraja, Wipro, Infosys, Essar Steels, HCL, IBM, L&T, TCS, Vijay Electricals etc.
- Many students have qualified in various competitive examinations (GATE, GRE, CAT, etc.). A good number of the students are pursuing higher education in various foreign universities.
- The department is conducting technical training classes for the students continuously throughout the academic year which are useful to the students while attending campus interviews and for competitive examinations.

19. Significant achievements of the Department

- I/II M.Tech (2010-11) student Manohar Kota (10102236) won GE's Innovation award for "Ecomagination Challenge: Powering the Grid". He was granted with prize money of 10,000 USD for further development and implementation of innovation ideas to promote a Micro Grid Structure.
- Mr.D.L.V.N.Praveen (Y8EE223) student of IV/IV B.Tech invented a new technology and has filed an utility patent titled "A Floating Wave Energy Conversion Systems" in the Indian Patent Office. It was published in Indian Standard Patent Journal on 27th May 2011.
- Mr.Rohan Bose (09101589), III/IV B.Tech , EEE is elected **Chair of IEEE Student Chapter of K L University.**
- Two of our UG Students (Maddi Sri Ranga Prasad- III/IV B.Tech, D. L. V. N. Praveen-IV/IV B.Tech) projects were shortlisted in **All India**

Young Engineers Humanitarian Challenge 2011 - an IEEE Bangalore section.

- The department is conducting Certificate courses in latest technologies like Electronic Design Automation to bridge the gap between Industry and Curriculum.
- Most of the students and faculty are the members of professional societies like IEEE, ISTE etc.
- Students are encouraged to become **Entrepreneurs** by conducting special programs through IRP and E-Cell.
- Two Scholars under the supervision of Dr.G.Radha Krishna Murthy, Professor, EEE Dept were awarded Ph.D from JNTU, Anathapur and JNTU, Hyderabad on 22nd September 2011 and 5th December 2011 respectively.
- One Scholar under the supervision of Dr. P.Linga Reddy, Prof. of EEE Dept., submitted Ph.D thesis to JNTU Hyderabad on 24th December 2011.
- Dr.M.Venugopala Rao, Prof. & HOD of EEE is serving as the Counsellor of **IEEE Student Chapter of K L University**. Several programs are organized under **Student IEEE Chapter**.
- Mrs.S.V.N.L. Lalitha, Associate Professor of EEE is serving as the Convener of **KLU Women's Forum**

20. Plan of action for next five years

- Planning to Organize International Conference.
- Planning to establish Central Instrumentation and Calibration Centre to enhance research activities.
- Develop contacts with core Industries with the help of KLU IRP Cell to strengthen the Consultancy.
- To get MOU's with important Electrical Industries

- To establish centre of Excellence in the area of Power Systems and Power Electronics for strengthen the Consultancy and Research.
- To get more sponsored projects.

21. Any other highlights

The department has the following committees which are to communicate, to analyze and to solve the difficulties of both Students and faculty. All these are headed by senior faculty of the department.

- | | |
|---|------------------------------------|
| ➤ Department Level Academic Committee | ➤ Student Counseling Committee |
| ➤ Departmental Level Physical Facilitates and Furniture Committee | ➤ Boy Student Grievance Committee |
| ➤ Lab Development Committee | ➤ Girl Student Grievance Committee |
| ➤ Departmental Laboratory Committee | ➤ Faculty Grievances Committee |
| ➤ Library committee | ➤ Student Activities Committee |
| ➤ Hostel Committee (Boys) | (Hobby Clubs, NSS etc) |
| ➤ Hostel Committee (Girls) | ➤ Professional Society |
| ➤ Transport Committee | Activity Committee |
| ➤ Canteen Committee | ➤ Student R&D Committee |
| ➤ Sports Committee | ➤ Student Discipline Committee |

G. Evaluative report of the Department of Management

1. Faculty profile, adequacy and competency

The department is rich with 27 faculty members, comprising of 7 Professors, 6 Associate Professors and 14 Assistant Professors. Of these, 9 faculty members have doctoral qualification (33%), 14 (52%) are pursuing doctoral program in various universities. There is a good blend of academic and industry experience among the faculty members. All the faculty members are well qualified and competent to meet the teaching requirements of the department. The total student strength of the department is 339. The department maintains a healthy student faculty ratio of 1:13.

2. Student profile according to programs of study, gender, region etc.

The number of registered students in the MBA Program Year II are 130, MBA Program Year I are 89, BBA Program Year I are 22, BHM Program Year I are 4, B.Com (Honors) Program Year II are 6 and B.Com (Honors) Year I are 87. The total student strength of the department is 339, comprising of 245 boys (72%) and 94 girls (28%). While there is presence of students from Tanzania (4 students), Nepal (2 students) and a few students from other Indian states, most of the students are predominantly from the State of Andhra Pradesh.

3. Changes made in the course of programs during the past five years and the contribution of the faculty to those changes.

Major curriculum changes have taken place in the MBA Program during 2009-10, when the program offered changed from the affiliation of Acharya Nagarjuna University to KL University. The changes primarily relate to bringing in the cutting edge curriculum and making it industry relevant. Some of the changes include introduction of sectoral specializations, broadening the functional specializations, intensive internship program, research focused management research project, etc.

The faculty members have also contributed to the introduction of new programs viz., MBA (Accounting & Finance), MBA (Technology

Management), B.Com (Honors), BBA and BHM. All these programs are on offer for admission into the University.

4. Trend in the success rate and drop rate of students during the past five years.

The department has a healthy success rate of 89% (pass percentage). Normally students, once enrolled in a program of the department, do not withdraw or discontinue. The reasons for dropout are withdrawal of support from their parents/guardians, ill health, marriage, etc. The dropout rate is just around 5 per cent. It has been falling over a period of time.

5. Learning resources of the department like library, computers, laboratories and other such resources.

- The department library has 354 volumes, 32 journals, project reports and educational CDs for the benefit of students and faculty members.
- Digital learning resources of the department include EBSCO, Springerlink and PROWESS. EBSCO has around 1,100 online journals. PROWESS equips the students and faculty members on the industry and country reports. All these resources are accessible to both faculty members and students.
- The department computer lab located on 4th floor has 69 computers fully loaded with all needed software. Students are trained on MS Office, ERP Packages such as Siebel, PeopleSoft, Oracle Financials, Tally, etc. in the computer lab.

6. Enhancement of the learning resources during the past five years.

All the classrooms are equipped with LCD projectors, audio equipment and white boards. All faculty members teach the sessions using a variety of methodologies such as PowerPoint Presentations, Video Clipping, etc. The PowerPoint Presentations are uploaded on to the E-Learning portal of the University. Use of ICT for enhanced learning is the practice of the department. In addition, activity based learning is focused on in the Learning Lab. This would include group discussions, role plays, debriefing and reflection

exercises, skits, management games, etc. Other activities such as quizzes, paper presentations, exercises in creativity, etc. are conducted during sessions titled as NEXUS. Industrial visits, industry based training and guest lectures by the industry experts also provide learning opportunities for students.

7. Innovative teaching methods in practice, other than the lecture method.

The department encourages and nurtures use of innovative teaching-learning practices. Such practices which are used in the department include the following:

- ❖ Case Studies
- ❖ Group Discussions
- ❖ Operation Workouts
- ❖ Assignments
- ❖ Just a minute sessions
- ❖ Live Projects
- ❖ Problem-Solving Exercises
- ❖ Role Plays
- ❖ Simulations
- ❖ Team Projects
- ❖ Book Presentations
- ❖ Operation Workouts
- ❖ Reading Seminars
- ❖ Scholar Series Lectures
- ❖ News Groups
- ❖ Expert Series Lectures
- ❖ Critical Thinking Exercises
- ❖ Paper Presentations
- ❖ ICT in learning
- ❖ Company visits

8. Participation of teachers in academic and personal counseling of students.

A faculty member is allotted with 20 students to provide personal counseling. The process of counseling includes monitoring student attendance, academic progress, mentoring, coordination with other faculty members in providing learning support for clearing backlogs, and career guidance.

9. Details of faculty development programs and teachers who benefited during the past five years.

The department organized AICTE sponsored FDP on Research Methodology, FDP on Bloom's Taxonomy, Refresher courses and Teachers Training Program for newly recruited faculty during the past five years. These

have immensely benefitted the participants in their academic delivery. Participants also include faculty from other colleges/universities.

10. Participation of teachers in academic activities other than teaching and research.

Apart from teaching and research, faculty members contribute to departmental responsibilities such as academic coordination, examination coordination, internship coordination, placement training and coordination, etc. Faculty members also contribute to the department in various committees such as Student Discipline, Student Grievance, Library, Faculty Grievance, Time Table Management, Student Activities, Hostel, Sports, NSS, Guest Lectures, Cultural and Management Fest, Transport, Canteen, etc.

In addition, faculty members undertake activities like consultancy services, extension activities, delivering guest lecturers outside the university, conducting training programs, participation in National & International Conferences, continuing education activities, etc.

11. Collaborations with other departments and institutions at the national and international levels and their outcome during the past five years.

- The University has collaborated with IBSN Inc., New York during November 2010, which has helped in providing intensive internship program to 30 students with a handsome stipend.
- The University signed MoU with Technical University of Cluj Napoka, Romania (2010), Latrobe University, Australia (2010), University of Massachusetts, Lowell (2010) for academic collaboration such as Joint Research, Student exchange, Faculty Exchange, conduct of workshops, etc.
- The University has also signed a MoU with Kquality Hotel, Guntur for development of curriculum for BHM Program.

12. Thrust areas of the research.

The department is focusing on research in the areas of marketing, finance and human resource management. The thrust areas of research include

services marketing, financial services, and leadership and change management.

13. Details of the ongoing projects completed during the last five years.

There are no ongoing projects in the department.

14. Programs by research offered by the University.

The department has been offering Ph D. program in Management since 2009-10. There are 20 registered Research Scholars pursuing their doctoral program under 6 supervisors.

15. Publications of the faculty for the past five years. Details regarding citation index and impact factor analysis.

The department encourages publication of quality research papers by the faculty members in national and international journals. During the past five years, faculty members published more than **45** papers in various reputed journals. In addition faculty members participated and presented papers in more than 25 conferences since 2009.

16. Participation of the department in the extensions activities of the University.

The department is actively contributing to the extension activities of the University. Students and faculty members are regularly participating in extension activities such as Blood Donation camps, Medical camps on every Friday in adjoining villages, serving Little Sisters (elderly people) in the form of donations, distributing fruits, cloths, medicines, etc. and NSS activities.

17. Method of Continuous student assessment.

The department implements continuous assessment in all the programs. Out of the 100 marks awarded for each course, 40 marks are assessed through formative assessment and the remaining 60 marks are assessed through summative assessment.

Formative assessment includes –

- Two internal tests of 1 hr 30 duration in each course and carries a weightage of 15% in the aggregate.

- Two surprise tests of 30 minutes duration in each courses and carries a weightage of 5% in the aggregate.
- Home assignments (Written) or live projects or reading seminars or case analysis in each course carry a weightage of 10%. One assignment will be given in each course in a semester. The component of evaluation is decided by the Course Coordinator depending on the nature of the course.
- Class participation of the students and their attitude carry a weightage of 5% per courses in a semester.
- Attendance of student carries a weightage of 5% in the aggregate marks. 75% attendance is compulsory in each course. Those with less than 75% attendance will be detained in that course.

The summative assessment is conducted at the end of the semester in the form of a comprehensive examination for duration of three hours. This carries a weightage of 60 per cent in the aggregate. The assessments are rigorous and standards are followed to maintain the quality of academics in the University.

18. Placement record of past students and contribution of the department to the student's placement.

The department has a well organized placement training and placement team. Students are well prepared through training and development activities to face interviews and secure placements. During the year 2010-11 a total of 72 students were placed. During the year 2011-12, a total of 111 students are eligible for placement, of which 24 are students are already placed. Remaining students would be placed in due course.

The department has been successfully placing 100% of eligible students since its inception. The recruiters of the students include HDFC Bank, Axis Bank, Yes Bank, TCS, 3i-Infotech, HCL, HDFC Loans, India Mart, Maxx Retail, Knoah Solutions, FactSet Systems, Leap International, Cholamandalam Vehicle Finance, CapitalIQ, CSS Corp (P) Ltd, Aditya Trading Company, Shoppers' Stop, etc.

19. Significant achievements of the department or faculty or students during the past five years.

- Mr. K N V Narendra, student of the MBA Program Year I won South Indian Power lifting Championship award for 75 Kg Category Silver Medal in 2011 Oct in Coimbatore.
- Dr. C. Anbalagan has received best research paper award from International Research Association of Computer Science & Technology (IRACST) During Oct 2011.
- Mr. K.S.V. Kumar received the award for best paper presenter at ICIMP organized by Annamalai University during 2009.
- Mrs. K. Hemamalini received Best Teacher Award from AP Tutorial Colleges Association in 2005.
- Students have been winning prizes in Management Fests & presented papers in national conferences.

20. Participation of the department in COSIP/COHSSIP, SAP, CAS, DSA, DRS, FIST, etc.

A total of 101 students have undergone intensive training in Enterprise Resource Planning offered by Oracle University during 2011- 12 academic year. Each student has undergone training in any two of the specializations viz., PeopleSoft, Sieble and Oracle Financials.

21. Plan of the department for the next five years.

The department has plans to foray into sunrise sectors such as Healthcare, Rural Management, Journalism and Mass Communication, Integrated Programs like B. Tech-MBA, B.Com-MBA, etc. We also have plans to offer an MBA program in entrepreneurship to develop entrepreneurs in the society, which is the need of the hour. Other emerging opportunities such as twinning programs with overseas partner universities, diploma and certificate courses in management and commerce disciplines are also being looked into. With MoUs from several universities abroad, the department is looking for faculty exchange programs also.

22. Any other highlights.

- The department has started innovative practices such as Expert series & Scholar Series Lectures to promote quality of our academic delivery.
- To facilitate hands-on learning experiences, operation workout is designed and implemented.

- The department meticulously following Blooms Taxonomy and Kolb's Experiential Learning Methodologies to enhance learning.
- Two foreign faculty members visited the department for conducting courses in Management Information Systems and Training and Development.
- The department subscribed for on-line databases such as EBSCO, Springerlink, PROWESS for the benefit of the students and faculty members.
- Academic flexibility is provided in the course offerings.
- Faculty members are encouraged to pursue higher studies (doctoral), research and consultancy activities.

H. Evaluative report of Department of Computer Applications

1. Faculty profile, adequacy and competency

The department is maintaining the prescribed (1:15) faculty ratio stipulated by the statutory bodies. The department has 1 professor with Ph.D qualification and 2 Asst. Professors with M.Tech qualification. The Faculty members have industrial experience with perfect blend of specializations in software engineering data mining and web technologies.

2. Student profile according to programs of study, gender, region etc.

Students who secure good ranks in state level Common Entrance Test, ICET, KLUCET, are joining in MCA. A balance in gender is maintained. Most of the students are from coastal districts of the state while others are from Hyderabad region and other states of India (Assam, Kolkata)

3. Curricular Changes in the MCA Program during the past five years and the contribution of the faculty to the changes.

Syllabus revision has been the hallmark of the MCA Department. Senior faculty from all specializations is involved in drafting and finalizing the syllabus. Eminent professors from IITs, NITs and industries are on our Board of Studies. Feedback from different stakeholders is given due importance in revisions. The latest modification was done during year 2011.

4. Trends in the success rate and dropout rate of students during the last five years.

The student's success rate is above 90% during the previous 5 years, with very negligible drop-outs. The students are being placed in major IT companies like Infosys, HCL, TCS, CTS, and Wipro since 2007. The placement percentage is 100%.

5. Learning resources of the department like library, computers, laboratories and other resources.

All the laboratories of the department are established spaciouly with high end Desktops connected in LAN with Internet connectivity and all the Software. The equipment to student ratio is 1:1. Additional experiments are being conducted in each lab to facilitate the students towards more practical exposure. The department has its own Library with 341 volumes to extend reference facilitates to the faculty and students in addition to the central library. Audio and visual classes are conducted as per the Time-Table. Each faculty member is provided with a computer system with more than 100 Mbps internet facility. Each student of the department is equipped with laptop using Wi-Fi internet facility which enables them to perform good literature survey through electronic databases.

6. Enhancement of learning resources during the past five years.

Each class room is provided with a LCD projector, audio visual system for ease of curriculum delivery. Department has PG lab with latest software packages installed. In all, 30 systems with high configuration are provided in these Labs. The department library has video lecture CDs covering more subjects. The lectures are delivered by eminent professors from different reputed institutions. The department is extensively using software like DB2, Rational Suite etc. Special certification classes are being conducted to the students by the industry giants like IBM, CISCO, Microsoft, ORACLE, Adobe etc.

7. Modern teaching methods in practice other than the lecture method.

Modern teaching methods are extensively used in addition to the lecture method. Emphasis is on student learning rather than traditional way of remembrance. All the class rooms are equipped with LCD projector and audio system. Assignments are given from Reference Books. Students are allowed to do one Mini Project in the core subjects. Student's performance is evaluated

on a continuous basis throughout the semester. Special classes are being conducted for weak students who got F grade.

8. Participation of teachers in academic and personal counseling of students.

An exclusive counseling class is included in the Time-Table in which each faculty is allotted a group of students. Students are counseled in these classes and problems pertaining to their academic/personal are provided with solutions. In addition, the weak students are continuously monitored and counseled to attain academic success.

9. Details of faculty development programs and teachers who benefited during the past five years.

At the beginning of each academic year Teacher Training Program is being conducted to train the newly recruited faculty with less than 2 years of experience. During the program Senior Professors of the College delivers Model Lectures, emphasize the techniques to deliver lecture effectively. Nearly 5 faculty of the department are benefited during the past 5 years. Mission 10X is one of the successful programs conducted by Wipro Technologies in the campus.

10. Participation of teachers in academic activities other than teaching and research.

Every faculty member is attending the conferences/workshops regularly to enhance their quality in academics and their research capabilities. Faculty is deputed to industry for training on current technology trends also involved in delivering extension lectures at conference and seminars. They also attend to such works as admissions, examinations, preparation of Time-Tables, conducting workshops, seminars and functions at university level and department level.

11. Collaboration with other departments and institutions at the national and international level and their outcome during the past five years.

MCA is part of the School of Computing. The School of Computing has MOU's with several leading educational institutes namely Jackson State University, MIT Lowell, USA, Dublin Institute, Ireland, Rutgers State university, Technical University, Romania, National College of Ireland, University of Phymat, U.K, IIT, Bangalore for faculty & student exchange to promote active research.

12. Thrust areas of the research

Network Security, Data Mining, Software Engineering, and Web Technologies are the thrust areas for research.

13. Details of the ongoing projects and projects completed during the last five years

S.no	Name of the Project	Investigators	Agency	Amount In Lacks
1	Web description and building model for sensors to discover knowledge for decision making prediction	Dr.K.Raghava Rao	DST ,NRDMS	15.54

14. Programs by research offered by the university

Conduct various awareness programs to 2nd and 3rd year students on latest tools and technologies. The department is offering PhD program.

15. Participation of the department in the extension activities of the university.

The faculty and students of the department are actively participating in various extension and social activities for the uplifting of the society through SUMMIT (Sandhan of Upcoming MCA's to Motivating Innovative Talents) .

16. Method of continuous student assessment

Students are evaluated in all subjects through continuous assessments namely Assignments, Surprise Quizzes, Tests, Group discussions, Tutorials,

Seminars, Lab Tutorials, etc.. In all the subjects a comprehensive examination is also conducted at the end of the semester. The internal assessment is done for 40% and the external assessment is done for 60%

17. Placement record of the past students and the contribution of the department to the student placements.

The department is conducting Certification courses, Add on courses, special classes on Quantitative problems, special Psychological classes for disadvantaged students during semester breaks including summer vacation. The success rate of campus placement is as follows

Academic Year	Placement	Contribution of Department
2010-11	100%	The department is responsible in achieving 100% placement for the past 5 years. It is training the students rigorously in qualitative, quantitative, analytical, aptitude tests along with Conducting Mock-Interviews, Group discussions, Panel discussions consistently.
2009-10	100%	
2008-09	100%	
2007-08	100%	

18. Significant achievements of the department or faculty or students during the past five years

- Dr.K. Raghava Rao, Professor, MCA Department had received an approval for R&D from NRDMS, DST worth 15.4 lakhs.
- Every year our MCA students are being selected for Microsoft Student Partners worldwide educational program.
- Virtual Industry on Campus with Zensar Tech and 3i InfoTech (CMM level- 5 Companies)
- Students are winning prizes in all national level papers contests from last five years.
- Implementation of E- Learning Facility
- Securing more than 90% pass percentage every year
- More than 5 research papers are published in various national and international Journals / Conferences by faculty members.
- Industry- Institution Interaction through MOUs (ECIL, Zensar Tech, 3i InfoTech, Infosys, Platinum Partnership with keen Software Solutions).

19. Plan of action of the department for the next five years.

- To be the Pioneers in Computer Science Education and carryout consultancy services and sponsored research in the specialized areas assuring high quality.

- To provide extension services to Local community by undertaking several research programs in problem areas of Rural India through e-services such as e-learning, Tele Health etc.,
- To offer new programs at different levels.
- To establish Centers of Excellence in emerging technologies like cloud computing, high speed sensor networks etc.

20. Plan of action of the department for the next 5 years.

- To increase research activities of the department.
- To plan for increasing consultancy works.

21. Any other Highlights

- Separate Library for the Dept. with relevant books and journals
- All faculty members are members of various professional bodies and societies such as CSI, and ISTE.
- Active Functioning of CSI Student chapters.
- Active Functioning of MCA student Associations (SUMMIT).
- All students are equipped with Laptops with 24 hour Internet and Wi- Fi Connectivity
- Implementation of Mini Projects by each student from fourth semester on words and it is continue process until Final Year When Main Project is implemented.
- Class room lectures with modern visual aids.

I. Evaluative report of Mechanical Engineering Department

1. Faculty profile, adequacy and competency of faculty

The Department of Mechanical Engineering (ME) was started in 1980. It was approved by AICTE and Re-accredited by NBA in 2007. Mechanical Engineering Department has a very good number of qualified, experienced and dedicated faculties. The department has 18 Professors, 13 Associate Professors, 41 Assistant Professors. 16 faculty members have Ph.D. Qualification. The remaining faculty possesses M. Tech degrees from reputed institutions. 23 faculty are pursuing Ph.D. Specializations of faculty cover all major fields of Mechanical Engineering such as Design, Thermal, Production and Industrial Engineering. As per Norms of Statutory Bodies, the stipulated Faculty-to-Student Ratio is maintained at all times.

2. Student profile according to programs of study, gender, region etc.

Students who secure good ranks in the EAMCET, KLUEEE, AIEEE and IIT-JEE prefer to join the program in comparison to other institutions. There are 933 boys and 57 girls in UG program (2,3&4 Yrs) and 23 boys and 6 girls in the PG programs. 12 students are from neighboring countries and states.

3. Changes made in the courses or programs during the past five years and the contribution of the faculty to those changes

A major syllabus revision has been taken up during 2006-07, under autonomous status emphasizing on contemporary job oriented courses. Senior faculty from all specializations is involved in drafting and finalizing the syllabus. As a Deemed to be University, the curriculum is designed by taking suggestions from eminent professors from various IITs and industries and being modified continuously by considering the feed back from different stakeholders. The latest modification has been done during 2011. Flexibility in terms of various streams is being offered by the department, leading to degree with specialization and minor in other courses.

4. Trend in the success rate and drop out rate of students during the last five years

The students' success rate is above 95% during the previous 5 years, without any drop-outs.

5. Learning resources of the department like library, computers, laboratories and other such resources

Mechanical Engineering Departmental Library has an excellent collection of books, journals and magazines with about 2085 books, 32 Journals/Periodicals, Question Papers, Data Bank, Student Project Reports, Educational CDs and Hand Books for the benefit of Faculty and Students.

Ten laboratories of the department are established spaciouly with additional equipment. The equipment student ratio is maintained as 1:2. Additional experiments are being conducted in each lab to facilitate the students towards more practical exposure. Audio visual classes are conducted as per Time-Table to gain the information regarding latest technologies.

6. Enhancement of the learning resources during the past five years

Mechanical Engineering Department has enhanced the learning resources for students in following laboratories:

- i. **Aero Space and Energy center** with 50 systems having internet facility. Licensed Software packages like Altair Hyper works & Pro-E Wild fire etc for conduction of Labs, Mini projects, Certificate courses, and Major Projects.
- ii. **CAD lab** with 75 systems having internet facility. Licensed Software Packages like Pro-E, Ansys, Auto CAD, and Hyper works, CNC Simulation software, Edge Cam, etc. are available to students.
- iii. **Advanced Research center (ARC) with** 16 systems having internet facility and have access to different e-journals.

7. Modern Teaching methods in practice other than the lecture method.

- Audio-Visual Classes are conducted as per time-table to gain the information regarding latest technologies.

- Lesson Plans are made available on KLU e-learning site before the beginning of each semester for all courses. Course files and Lab Handouts are given to the students to give them overall idea about the course they are going to study.
- Modern teaching facilities such as Audio-Visual facilities, LCD and OHP are being extensively used in addition to traditional lecture methods.
- Students are being trained by conducting extra classes to refresh their knowledge and also required computer software as per the requirements of the companies visiting the campus for selection are provided.
- All the students (Both UG/PG) students use laptops which can be connected to KLU Wi-Fi Network. E-learning methodology is being extensively used.

8. Participation of teachers in academic and personal counseling of students.

- An exclusive counseling class is included in the Time-Table in which each faculty is allotted with 20 students.
- Students are counseled in these classes and problems pertaining to their academic/ personal are provided with solutions.

9. Details of faculty development programs and teachers who benefited during the past five years.

- At the beginning of each academic year, Teacher Training Program is being conducted to train the newly recruited faculty with less than 2 years of experience.
- During this program, senior professors of the Academic Division deliver orientation lectures, emphasizing the techniques to deliver a lecture effectively.
- 20 faculty of the department have benefited during the past 5 years.

- Outside experts are also being invited to orient the faculty on effective teaching.

10. Participation of teachers in academic activities other than teaching and research

- A good number of teachers are attending the conferences/ workshops etc. to update their knowledge and enhance their quality in academics.
- To get themselves acquaint with latest technological trends, the faculty also are deputed to Industrial training during slack period of the academic year.

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years

Collaborations are entered with

- a. Dalin University, China in the area of Rotor Dynamics & Turbo Machines.
 - Joint Conference is planned in Rotor Dynamics in June 2012
 - Two papers were published in Rotor Dynamics jointly
- b. Polish Academy of Science, Poland in the area of Rotor Dynamics & Flight Mechanics
 - Joint Conference is planned in Rotor Dynamics & Flight Mechanics in August 2012
 - Four papers were published in Rotor Dynamics & Flight Mechanics jointly
- c. Villanova University USA in the area Bird injection in aircraft rotors
 - Four papers were published in Bird injection in aircraft rotors
- d. Indo US. Obama Singh 21st Century initiative worth Rs. 1.41 Crores Submitted to UGC & America Embassy jointly on 20th Nov 2011
- e. Autoliv, Bangalore
 - 5 student projects are being executed in 2011-2012

12. Thrust Areas of research

Mechanical Engineering has identified the following thrust areas for Research

- Aerospace and Energy
- Alternate Energy
- Condition monitoring and fault diagnosis
- Robotics and Medical Applications
- Rotor Dynamics and Turbo Machines
- Lifting and Optimization
- Cryogenics
- Computational Fluid Dynamics
- Alternate Fuels
- Nano Technology
- Supply Chain Management

Research Group in Mechanical Department

Following are the major Research groups identified in the department

1. Thermal Engineering
2. Manufacturing Engineering
3. Industrial Engineering
4. Design Engineering

Meetings are held at regular intervals, to initiate and take up research activities.

13. Details of the ongoing projects and projects completed during the Last five Years.

S.No	Name of the Project	Funding Agency	Principal Investigator	Present Status of the Project
1	Development of Expert Systems for Condition Monitoring	NSTL (DRDO)	Dr.K.V.Ramana	Completed
2	Modernization of FMS laboratory	AICTE (MODROBS)	Dr. A. Jagadeesh & Sri. M. Sesishar	Completed
3	Modernization of CAM laboratory	AICTE (MODROBS)	Dr. K. L. Narayana & Sri. T. Srinag	completed
4	Development of Expert Systems for Design of an Optimum Manipulator for any Medical / Surgical Robot with incorporation of Neural Network & Fuzzy Logic Concepts for Sensing	UGC	Dr.A. Srinath	On-going
5	Development of Software for Optimum Selection and Rating of Manipulators for Robotic Applications	AICTE	Dr.A.Srinath	On-going

14. Programs by research offered by the university

Doctoral program in Mechanical Engineering. So far, 9 scholars have registered for their Ph. D and are working in their research areas.

15. Publications of the faculty, for the past five years. Details regarding citation index and impact factor analysis

YEAR	INTERNATIONAL/ NATIONAL JOURNALS	INTERNATIONAL/ NATIONAL CONFERENCES
2006-2007	03	37
2007-2008	05	
2008-2009	10	
2009-2010	18	
2010-2011	18	
2011-2012	26	
Total	80	37

16. Participation of the department in the extension activities of the university.

NSS activities

Students are actively participating in blood donation camps, distribution of medicines in surrounding villages, conducting health awareness camps, distribution of books and uniforms in municipal schools.

17. Method of continuous student assessment.

Continuous assessment of students is done by conducting Assignments, Tests, Quiz, popup tests, etc regularly.

18. Placement record of the past students and the contribution of the department to the student placements.

All students got jobs in core industries and also in software companies. All the students registered for placements got jobs in last 5 years in domain areas. The Mechanical Engineering Department conducts technical classes beyond regular hours. Taking help from Communication & Soft Skills Department to improve the communication skills of students.

19. Significant achievement of the department of faculty or students during the past five years.

- Dr. K.V.Ramana
 - Guided two research scholars, who in turn obtained their Ph.D
 - Technology Angel by Department of Science and Technology

- Best Teacher 7 times (by KLCE)
- Certificate of Merit by Institution of Engineers (India)
- Research supervisor by O U, ANU, NIT (Warangal)
- Fellow by Institution of Engineers
- Chair person for Condition Monitoring Society of India, Vijayawada local chapter
- Ph.D Adjudicator for the thesis entitled *Eigen Value Re analysis of Simple and Compound Beam Structures with and without damping treatment using structural dynamic modification.*
- Dr. A.Srinath
 - The N.K.Iyengar Memorial Award, from The Institution of Engineers, India
 - Career Award For Young Teacher's , from All India Council For Technical Education, New Delhi
 - Reviewer for “*Mechanism & Machine Theory Journal*”, Elsevier
- Dr. K. Ramakotaiah
 - International journal of Advanced Manufacturing Technology
 - International journal of Machining & Machinability of materials

20. Participation of the department in COSIP/ COHSSIP /SAP /CAS/ DSA/ DRS/ FIST etc.

The Department is making proposals for submission to the schemes that include COSIP/ COHSSIP /SAP /CAS/ DSA/ DRS/ FIST etc.

21. Plan of action of the department for the next five years.

- To submit project proposals to various funding agencies.
- To strengthen R&D activities among students and staff in all thrust areas identified.
- To encourage faculty members for publishing papers in national, international conferences and journals.
- To achieve 100% professional society memberships.
- To conduct video conference lectures with eminent professors.

- To enter into MOUs with foreign universities for faculty exchange program.
- To conduct at least two national/international level seminars/workshops per year.
- To establish a centre of excellence in the area of Alternate Energy Sources.
- To introduce new courses at UG and at PG level.
- Organizing National Conference in association with AMM and American Society for Mechanical Engineers (ASME) in 2012.

22. Any other highlights.

- Established an inter-disciplinary Aero Space and Energy Centre.
- Strong Industry Institution Interaction
- Live Projects – Collaboration with Pricol Technologies- Coimbatore, Autoliv- Bangalore, Altair Engg. Inc- Bangalore, Liners India Ltd- Vijayawada and Vijayawada Auto Cluster
- Campus Connect Program with Altair Engg. Inc.
- Licensed Software and Student Certification courses in Hyper works, ANSYS, Pro-E, Autodesk Inventor.
- Imparting soft skills through a separate department 100% Placements for graduating Students
- Started a International Conference Series “International Conference on Multi Body Dynamics”. First in series was held in February 2011, second is in pipe line in February 2013.
- Students’ chapter of Society of Automotive Engineers (SAE) and American Society for Mechanical Engineers (ASME) has been started and activities are taken up regularly.

J. Evaluative report of Freshmen Engineering Department

FRESHMAN ENGINEERING DEPARTMENT is a unique feature of K L University. It was established in the Academic Year 1996 and has contributed significantly right from the year of inception. The idea of bringing all branches of students under one umbrella and to impart to them all basic skills required in domain (subject specific) and generic (Academic & study) competencies has success written all over it. Further it helped in countering various administrative problems by creating a single focal point. The greatest contribution made by this administrative setup is in countering the universal malaise of ragging.

1. Faculty profile Adequacy and competence

Freshman Engineering Department has highly qualified, experienced faculty drawn from various disciplines in Humanities, Basic Sciences, and Engineering with expertise as well as a proven track record. The Department is divided into four sub units FED-I, FED-II, FED-III & FED-IV with independent HODS to facilitate efficient administration. The Department has 32 faculty members with Ph.D qualification and 38 members with M.Phil, 14 members with M.Tech and another 48 members with post graduation qualifications.

Total Number of Faculty	126
Faculty with Ph.D	32
Faculty with Post Doctoral Experience	14
Faculty with More than 15 Years Experience	45

2. Students Profile according to programs of study Genders, Region

The Department has students admitted into 7 branches and are distributed into 25 sections. Students in these courses (B.Tech I/IV Semester I & II) are from India and abroad. The Teachers Student ratio is 1: 15

3. Changes made in the courses or programs during the past five years and contribution of the faculty to those changes.

The syllabi of various courses are designed/ modified keeping in mind the twin prospects of pursuing higher study options like Masters and Management programs as well as campus placement. Syllabus revisions are undertaken under guidance from industry experts and Academia after a careful analysis of student feedback. The last revision was done in the academic year 2011- 2012.

4. Trend in the success rate and dropout rate

During the last five years student performance has been exemplary and the success rate has been satisfactory. The average pass percentage over the last five years is 72%.

5. Learning Resources of the Department (Library, Computers, Laboratories)

7 state of the art laboratories in the areas of Basic sciences, Engineering and Language and Communication Skills worth 1.5crores have transformed the Department in to a haven of learning and successfully bridged the gap between the abstract and applied facets of a subject in focus, serving the needs of faculty and the students. The software tools provided in the labs are MAT LAB, Auto CAD, TURBO C etc. The Department is equipped with a total of 297 systems with the Computer Programming Lab upgraded with latest configuration recently.

The Department houses a Library having 256 books and 21 journals and periodicals. The Department has a Research and Development (R & D) center in the areas of basic sciences to cater to the research needs of faculty.

6. Enhancement of learning resources

Every year budget is allocated for purchase of new equipment for student practicals and research purpose, books and journals. A measurements lab comprising latest equipment is installed newly in the year 2011-2012. 12 additional classrooms were constructed this year for the use of the department.

7. Modern teaching methods in practice other than lecture method

The Department is constantly emerging in the sphere of experimental mode of teaching and learning methodologies which take the aid of not only technology but human expertise, in addition to the conventional and tested methods, to be in tune with the changing trends. Information and Communication Technology (ICT) enabled teaching methods like Overhead Projectors (OHPs), Power Point presentations (PPTs) using LCD projectors, Audio-visual usage in language classrooms are some of the methods whose focal point is on a learning process which is student-centric. Every classroom has an ambience which is a blend of modernity and ethnicity in relation to the physical facilities and resources used.

8. Participation of teachers in academic and personal counseling

The Department has become popular as the ‘Home away from home’ to the students for the guidance and care that it showers during counseling sessions in varied realms, not just in academic domain but also in conquering psychological inhibitions. Every faculty is assigned a group of 20 students for counseling. The progress of the students is regularly ascertained and remedial measures are taken as and when necessary.

9. Faculty Development Programs:

To hone the pedagogical skills of the members of faculty, Teacher Training Programs, Soft skills training programs and Language Workshops are conducted. These training programs have enabled and empowered the teachers with the know-how. Earnest attempts are made to constantly upgrade their efficacy and efficiency in curriculum delivery. In these training programs, grey areas of the faculty are identified by mentors who observe these teachers in action. Objective evaluation of their performance is given as feed back and in the second round of presentations on White Board / PPT; teachers are able to incorporate the suggestions and tips given by the mentors. This practice has significantly improved the quality of teaching at KLU.

As KLU has a strong base of trainers and resource persons, teachers training programs are conducted at periodic intervals. Members of faculty have coordinated and conducted 21 training programs at KLU as in-house training.

10. Participation of teachers in academic activities other than teaching and research.

In addition to teaching and research, the faculties have been included as members of different administrative committees, which contribute to the smooth functioning of the department and the university. They also guide students in the conduct of the university festivals SAMYAK and SURABHI every academic year. They helped students function as an editorial board to bring out the inaugural number of a Fed student journal ENCORE. Faculty members also counsel students inclined to pursue further studies in the US and various competitive exams like CAT, GMAT TOEFL, GRE and IES.

12. Research and Consultancy, Thrust areas

Research is an indispensable part of the work life of the faculty in the Department, happening at different platforms. The thrust areas of research in the Department are

Subject	Thrust area
1. Physics	a) Anon-Technology b) Glass Sciences c) Atmospheric Science
2. Mathematics	a) Applied Mathematics b) Operational Research c) Topology d) Graph Theory
3. Chemistry	a) Liquid Crystals b) Bio-pharmaceutical Chemistry
4. English	a) English literature b) English Language Training c) English for Specific Purposes

3 women scientists are presently working under the guidance of the professors of the Department, on projects sanctioned by The Department of Science and Technology.

14. Research Programs offered by the Department

The Department offers Full-time and Part-time PhD programs. The Department is presently into its third phase of PhD admissions and 26 scholars have been admitted. PhD admissions have brought in an outlook of dynamism and earnestness to the research environs of the Department.

15. Publications/Patents of the faculty for the last five years

The Department has produced 106 publications in reputed National and International Journals in the last five years.

16. Participation in Extension activities:

Members of faculty and students have taken active part in extension activities of KLU under the social service wing. Students visit nearby villages to conduct medical camps and health awareness programs. Blood donation camps also attract a large number of students.

17. Continuous Internal Assessment:

The performance of the students is evaluated and assessed continuously throughout the semester through quiz, assignments, home assignments and mini projects. They are also assessed in the various labs like, Computer Programming lab, Physics lab, Chemistry lab and Computer Aided Language Lab. The lab component carries a weight age of 40%

19. Achievements of the Department:

Freshman Engineering Department (FED) plays a crucial role as providing a smooth transition from +2 or Intermediate level to professional education. There is a smooth transition from conventional, memory based learning to Blooms Taxonomy oriented, competency based learning, giving them an opportunity to remember, understand, apply, analyze and even create or innovate, a very strong foundation is laid is here as FED and hence the students are able to cope with the demands of a university set up. Discipline is the hall mark of KLU and FED is ragging free. This in turn helps the students to grow without fear or anxiety. Mr.Ch.Jignas, for archery, has won 1 gold and

2 bronze medals at the All India Inter University Archery competition held at Punjab University, Patiala, held from 10th to 14th November, 2011.

In areas like Material Science, Atmospheric Sciences and Drug Analysis, Operations Research and Applied Mathematics active research is going on. FED has bagged the prestigious DST project under Young Women Scientist Programs. It has got projects worth 10 lakhs, 20 lakhs and 20 lakhs respectively from DST, under the government of India. The physics Department has imported one UV-VIS-NIR Spectro Photometre of 200 to 2700 nm range from JASCO, Japan at a cost of Rs 10 Lakhs to facilitate research. More projects are in the pipeline.

21. Plan of action for the next five years.

FED is planning to set up two research labs namely Atmospheric Research Lab intended to study the variability of trace gases and their effect on global warming and ecological systems. It is also intended to study Aerosols distribution and its implications on human health. The second lab to be set up is Advanced Materials Research lab with state of the art infra structural facilities with the help of funding agencies.

The department of Nano technology conducted a National Workshop on Nano sciences recently. The program drew a very large participation from all over India. More International Workshops and conference are planned. For example, the department of English is planning to conduct an international conference on 'Curriculum Design and Delivery' very soon.

FED is also planning to offer Post graduate programs in Applied Mathematics, Nano Technology, Applied Physics and Industrial Chemistry. Efforts are being made to make the teaching learning process more industry and research oriented. ICT enabled teaching is one area the department plans to implement effectively in the days to come.

22. Any other highlights

- Ms. K.Swapna- a woman scientist in Physics working under the guidance of Dr. A.Srinivasa Rao in the Department has recently been

sanctioned a project titled “Absorption and Emission characteristics of rare-earth doped glasses for efficient lasers” worth Rs 21, 70,000 spread over a period of 3 years by the Department of Science and technology, Govt of India.

- Ms.V.Durga Praveena-one of the PhD scholars working under the guidance of Dr.K.Vijay kumar of the Department, qualified for a Full-time CSIR Scholarship applicable from January, 2011.
- The physics Department has imported one UV-VIS-NIR Spectro Photometre of 200 to 2700 nm range from JASCO, Japan at a cost of Rs 10 Lakhs to facilitate research. More projects are in the pipeline.

Evaluation Reports by Departments dealing with Co-Curricular and Extra-Curricular Activities

K. Evaluative report of Communication and Soft Skills Department

1. Faculty Profile, adequacy and competence

Keeping various academic needs of students and specific requirements of campus recruitment in view, a separate Communication and Soft Skills Department (CSS) is devoted to develop Communication and Soft Skills capabilities of students. CSS was formed by drawing faculty with Mathematics, Humanities and Social and Behavioral Sciences background. Formed in 2005, CSS has 2 Mathematicians, 10 English Language and Soft Skills Specialists and Psychologists and HR Trainers as Faculty Members. Apart from conducting Conventional Class Room Training, the faculty of CSS involve in counseling and career development of the students.

2. Student Profile According to programs of study, gender and regions

All the students of all the programs reflected in the respective academic programs are handled by this department for imparting communication and soft skills.

3. Changes Made in the courses or program

Three Courses are being delivered during first three years of B. Tech Programs that are related to Communication skills, logical reasoning and quantitative analysis, problem solving, technical writing, team work etc. The major changes to these courses have been carried in the year 2011-2012 based on the feedback received from the students and employers

4. Trends in the success rate and dropout

The dropout rate of the student's from the CSS courses is zero

5. Learning resources of the department (Library, Computer, Laboratories)

The department is managing a language lab at which Glob Arena software is installed using which communication skills are being imparted.

6. Enhancement of learning resources

The department is using all modern Teaching pedagogy to impart communication and soft skills. Every year, the learning resources such as ICT facilities, library books and computing facilities are being enhanced

7. Modern Teaching Methods

The teachers of the department are using modern teaching methods which involve active learning. The methods include group discussions, practicing, case based learning etc.

8. Participation of the teachers in academic and personnel counseling

The faculty of the department involve career based and psychology based counseling and also tracks the performance of the students in relation to the placements

9. Details of Faculty Development programs

The faculty of the department is being trained by deputing them to conferences, workshops and also through orientation programs conducted by the departments.

10. Participation of teachers in academic activities other than teaching and research

The teachers of the department participate in the curricular design, counseling and tracking the performance of the students.

11. Collaboration with other departments and institutions at National and International Levels

The department at present has not got any direct collaboration outside the university. But the faculty of the department is participating in the activities being conducted by other departments.

12. Research, Consultancy and thrust areas

The teachers of the department are conducting research in the areas of Psychology, Career development and forecasting, personality development, barriers of communication etc.

13. Details of ongoing projects

The departments have submitted two projects worth 50.00 Lacks which are in the review state. The projects are submitted to DST for approval.

14. Program by research offered by departments

The department is offering a research program in the fields of Psychology, Career development and forecasting, personality development etc.

15. Publications, patents of the faculty for the last 5 Years

The members of faculty of the department have published 15 Papers in the International and National journals and conferences.

16. Participation of the department in the extension activities of the university

The teachers of the department are the members of various cells established under the extension center and participating in various activities conducted by those cells.

17. Method of continuous student assessment

All the courses related to CSS are being evaluated with 40 % weightage and the remaining weightage of 60% is assigned for the comprehensive examinations.

18. Placement of the students during the past few years

The CSS department is playing a major role in achieving 100% placement of all the registered students by imparting training to the students.

19. Significance Achievements of the Departments

The main and significant achievement of the department is the achievement of 100% placement of all the registered students for employment.

20. Participation of the Department in COSIP/ COHSSIP/ SAP/ CAS/DSA/DRS/FIST

The department has not made any proposal related to the National projects that include COSIP/ COHSSIP/ SAP/ CAS/DSA/DRS/FIST

21. Plan of action for the next 5 Years

To invent new methods of imparting Communication and soft skills and also carry research in the advanced fields soft skills and communication.

Long Range Plans

- a. Certification of students who undergo Instruction in Career Development Lab
- b. To introduce **Certificate, Diploma & Degree Courses** such as:
 - i. Certificate of General Proficiency in English (3 months)
 - ii. Certificate of Proficiency in Academic and Professional English (6 months)
 - iii. Certificate of Proficiency in Soft Skills (6 months)
 - iv. Certificate in Desktop Publishing (DTP) (6 months)
 - v. Certificate in Human Values
 - vi. PG Diploma in Soft Skills (6 months)
 - vii. PG Diploma in Journalism and Mass Communications (1 year)
 - viii. M.A in Soft Skills.
- c. To conduct Teacher Training Program in Communication Soft Skills and Classroom Management
- d. **Campus Placement Program:**
 - i. To promote and implement e-Learning through laptops
 - ii. To administer O-Line Tutorials and Tests
- e. To prepare and compile a comprehensive Database of IT and core companies
- f. To compile feedback to by visiting HR/Technical panel experts
- g. To make any and all sensible improvements suggested by experts
- h. To achieve total connectivity

L. Evaluation report of Industry relations and placement Department

1. Faculty Profile, adequacy and competence

The department is manned by 12 officers who are stationed all over the country to provide interface with industrial organizations situated in different cities and industrial locations. All the faculty are well experienced in the field of industry relations.

2. Student Profile According to programs of study, gender and regions

All the students of all the programs reflected in the respective academic programs are handled by this department for imparting communication and soft skills.

3. Trends in the success rate and dropout

The dropout rate of the student's who are registered for placement is zero.

4. Learning resources of the department (Library, Computer, Laboratories)

The department has a small library having books that are related to placement, career development, is managing the language lab at which a software by name Globarena is installed using which communication skills are being imparted.

5. Enhancement of learning resources

The department is using all modern teaching tools to impart communication and soft skills. Every year, the learning resources such as ICT facilities, library books and computing facilities are being enhanced.

6. Modern Teaching Methods

The teachers of the department are using modern pedagogical methods which include active learning. The methods include group discussions, practicing, case based learning etc.

7. Participation of the teachers in academic and personnel counseling

The faculty of the department involve career based and psychology based counseling and also tracks the performance of the students in relations to the placements

8. Details of Faculty Development programs

The faculty of the department is being trained by deputing them to conferences, workshops and also through orientation programs conducted by the departments.

9. Participation of teachers in academic activities other than teaching and research

The faculties of the department are participating in the curricular design, counseling and tracking the performance of the students.

10. Collaboration with other departments and institutions at National and International Levels

The departments at present have not got any direct collaboration with outside the university. But the faculty of the department is participating in the activities being conducted by other departments.

11. Research, Consultancy and thrust areas

The members of faculty of the department are conducting research in the areas of Psychology, Career development and forecasting, personality development, barriers of communication etc.

12. Details of ongoing projects

The departments have submitted two projects worth 50.00 Lacks which are in the review state. The projects are submitted to DST for approval.

13. Program by research offered by departments

The department is offering a research program in the fields of Psychology, Career development and forecasting, personality development etc.

14. Publications, patents of the faculty for the last 5 Years

Members of faculty of the department have published 15 Papers in the International and National journals and conferences.

15. Participation of the department in the extension activities of the university

The faculties of the department are the members of various cells established under the extension center and participating in various activities conducted by those cells.

16. Method of continuous student assessment

All the courses related to CSS are being evaluated with 40 % weightage and the remaining weightage of 60% is assigned for the comprehensive examinations.

17. Placement of the students during the past few years

The CSS department is playing a major role in achieving 100% placement of all the registered students especially by imparting training to the students.

18. Significance Achievements of the Departments

The main and significant achievement of the department is the achievement of 100% placement of all the registered students for employment.

19. Participation of the Department in COSIP/ COHSSIP/ SAP/ CAS/DSA/DRS/FIST

The department has not made any proposal related to the National projects that include COSIP/ COHSSIP/ SAP/ CAS/DSA/DRS/FIST

20. Plan of action for the next 5 Years

To invent new methods of imparting Communication and soft skills and also carry research in the advanced fields soft skills and communication.

Long Range Plans

- a. Certification of students who undergo instruction in the Career Development Lab
- b. To introduce **Certificate, Diploma & Degree Courses** such as:
 - i. Certificate of General Proficiency in English (3 months)
 - ii. Certificate of Proficiency in Academic and Professional English (6 months)
 - iii. Certificate of Proficiency in Soft Skills (6 months)
 - iv. Certificate in Desktop Publishing (DTP) (6 months)

- v. Certificate in Human Values
 - vi. PG Diploma in Soft Skills (6 months)
 - vii. PG Diploma in Journalism and Mass Communications (1 year)
 - viii. M.A in Soft Skills.
- c. To conduct Teacher Training Program in Communication Soft Skills and Classroom Management
- d. **Campus Placement Program:**
- i. To promote and implement e-Learning through Laptops
 - ii. To administer online tutorials and tests
- e. To prepare and compile a comprehensive Database of IT and core companies
- f. To compile feedback to by visiting HR/Technical panel of experts
- g. To make any and all sensible improvements suggested by experts
- h. To achieve total Connectivity

M. Evaluation report of Department of Physical Education

1. Faculty Profile, adequacy and competence

The department is manned by 24 personnel who include 2 Physical directors, 5 assistant physical directors, 12 Coaches, 1 Trainer, 1 Office assistant, 2 Attenders and 1 NMR.

2. Student Profile According to programs of study, gender and regions

All the students of all the programs reflected in the respective academic programs are handled by this department for imparting communication and soft skills.

3. Changes Made in the courses or program

The department is conducting several certificate courses to achieve the following:

- a. Create the interest in each and every student to participate in physical activity.
- b. Develop the fitness level of the students.
- c. To enable the students relax mentally & physically by practicing relaxation exercises and get rejuvenated with vigor through physical activity.
- d. To achieve the overall Development of the student

The changes to the curriculum related to certificate courses have been carried during 2011-2012 by conducting many of the Industry experts in this area.

4. Trends in the success rate and dropout

The dropout rate of the student's who are registered for certificate courses and the registrations for participating in competitive events conducted by the other organizations are zero.

5. Learning resources of the department (Library, Computer, Laboratories)

The department has a small library having books that are related to Physical Education. The department has 3 computers for its regular working

6. Enhancement of learning resources

This department has been engaged in delivering the certificate programs and modern gadgets are being used for imparting training. The department is adding books to the library regularly and facilities the trainers with the facilities required for imparting the programs.

7. Modern Teaching Methods

The Physical Education Department has been using modern methods of delivering the certificate courses which include both class room based and field based.

8. Participation of the teachers in academic and personnel counseling

The faculty of the department are involved in counseling the students in relation to physical development; mental strengthening through Yoga, body building, exercises for countering the physical disorders etc.

9. Details of Faculty Development programs

The trainers of the department are given more exposure by deputing them to conferences, workshops and also through orientation programs conducted by the departments in relation to the Physical education

10. Participation of teachers in academic activities other than teaching and research

The officers of the department participate in the design of certificate courses related to physical education.

11. Collaboration with other departments and institutions at National and International Levels

The department is collaborating with other universities, state and central government organizations connected with Physical education. The collaborations are mainly related to modernization of the facility and in organizing various kinds of events.

12. Details of ongoing projects

The department has made proposals for upgrading the facility and also making proposals for undertaking research in the areas of yoga and Physical education

13. Program by research offered by departments

5 of the officers of the department are PG holders in physical education. The assistant directors have registered for doctoral programs and are carrying active research.

14. Publications, patents of the faculty for the last 5 Years

The officers of the departments are pursuing active research and will soon be having published paper count.

15. Participation of the department in the extension activities of the university

The faculties of the department are the members of various cells established under the extension center and participating in various activities conducted by those cells.

16. Method of continuous student assessment

The department assesses the performance of the students in the certificate courses conducted by the Physical Education department and helps the students to improve upon the skills as and when necessary.

17. Placement of the students during the past few years

The department is finding the career opportunities based the merit achieved by the students in the physical education. The information on the career opportunities is passed on to the placement cell. The department is successful in placing all the students and has achieved 100% placement in the last 5 Years.

18. Significant Achievements of the Department:

The main and significant achievement of the department is the introduction of the certificate courses and participation of the students in the National Events.

There are many significant achievements earned by the students of the university. Some of them are given below:

1. Winning medals and shields in Inter National, National, South Zone & State level tournaments
2. Designing and development physical development activities
3. Host National Level events

19. Participation of the Department in COSIP/ COHSSIP/ SAP/ CAS/DSA/DRS/FIST

The department has not made any proposals related to the National Projects that include COSIP/ COHSSIP/ SAP/ CAS/DSA/DRS/FIST but however contemplating to make proposals for undertaking advance research in the field of physical education.

20. Plan of action for the next 5 Years

The department has many plans to achieve which are classified as short term, medium terms and long term. The following are the plans of action

Short Term Goals

1. Conduct of state and National level workshops, seminars to recognize or upgrade the K L University at National level and also to upgrade the physical education standards (knowledge).
2. To train the students in all games effectively & regularly from 6.00 am to 8.00 am and 3.30 pm to 6.30pm.
3. Selection of the players for different games on merit basis to participate in the ANU Inter Collegiate games Tournaments and bring laurels to our University.
4. Representing the selected teams to participate in ANU Inter Collegiate games tournaments, National level tournaments and State level tournaments.
5. Conducting the ANU or State games tournaments in selected games and sports in KLCE.

6. Fielding ANU selected players to participate at All India, South and South west zone Inter University Tournaments to be conducted in various Universities in the Country
7. Conduct of Departmental games.
8. Conduct of Inter Departmental games.
9. Conducting sports day celebrations both for staff and students.
10. Laying the 400mts standard track.
11. New courts lying – KHO - KHO, Kabaddi, Hand Ball courts.
12. Issue of Track suit, to winning Team players.
13. Presenting silver mementos to All India, National, South, South west zone players.
14. Attendance to all participating Team players & Individual players, participating all India, South West zone State tournaments.
15. Provision to conduct exams to participating players according to feasibility.
16. provision to conduct exams to All India, South Zone, South west Zone players
17. Sportsmen diet or Nutrition Diet or supplementary diet to various selected team in coaching camp for 15 to 20 days.
18. Conduct of State, National level yoga competitions.
19. Participate in South Zone level Yoga competitions.
20. Conduct yoga Seminars, paper presentation at State, National and International levels.
21. To get all India level affiliations (membership) to participate and conduct National level competitions.
22. Extension of Yoga hall to student's activity center for boys.

Medium Term Goals

1. Planning to launch UGDPED, BPED & MPED courses successfully in our university.
2. Planning to launch Diploma courses in Physical Education.
3. To Issue Track suits to all winning teams with our Logo/Emblem.
4. To Issue Sprinters & Jumping Spikes (jumpers) to participating athletes.
5. To issue Blazers to Team Managers and Team Coaches with our logo.

Long Term Goals

1. To get Indian Universities affiliation to recognize the K L University so that K L University Teams can represent in the Inter University Tournaments.
2. To train the students or players to keep high standards by PDs and coaches in different games and sports from 6.00am to 8.00am and 3.30pm to 6.30pm.

3. Selection of Teams in various games/sports for K L University Teams to participate in South and South west zone and All India level Tournaments.
4. Selected Teams should be send to participate in the South, South West & All India Tournaments conducted at various universities in our country.
5. To conduct South & South West Zone and All India level games tournaments in different games in K L University.
6. Attendance to all participating teams and Individuals, not exceed 30 to 45 days.
7. Provision to conduct all types of exams to participating Teams and Individuals at National, South, South west zone Tournaments..
8. K L University cash awards ceremony for medal holders or winners.
9. To establish a Swimming Pool to reach up to the standards as per UGC Norms.
10. 400 mts standard track pavilion with fencing & flood lights.
11. Fled lights to all out door courts.
12. Basket ball standard court with fiber board with dun ken rings.
13. Basket ball movable stands with fiber board & dun ken rings.
14. Men gym extension to men caroms, chess room with rubber flooring curtains Mirrors, body building photos etc.,
15. Conduct of weight lifting power lifting and body building competitions in our University and also players should participate at other University competitions.
16. Conduct of certificate course in more games.
17. Conduct of K L University Inter branches and Inter Engineering colleges Games Tournaments.
18. Conduct of K L University sports mela –free meals – free accommodation for Team players, and officials and prizes for selected events/games or conducted events/games.