

## **2012-13 University Report**

K L University has been successful in establishing and developing world class academic standards in Engineering, Sciences, Humanities, Commerce and Management.

The management believes in providing suitable ambience to encourage research among the academicians in the University. The institute is recognized as a public funded research institute by DSIR of Govt. of India. As on today the University has 49 sponsored research projects. Special centers of excellence in association with Microsoft (Microsoft Dreams-spark), IBM (IBM Centre of Excellence), Oracle (Oracle IT Academy Lab), CISCO (CISCO Lab) and Abode (Abode centre of Excellence) have been set to enhance research among students and faculty. Further the University has established special labs such as Open Academy Lab, Multimedia and Animation Center, VLSI Center of Excellence, Altair Hyper Works Design Center, Advanced Bio-Tech Labs, NI Lab view etc.

The University has been accredited by NAAC as 'A' grade University with CGPA 3.16 on 4.00 point scale in 2013. Further the University is also ISO 9001-2008 certified in the year 2012.

The entrepreneurship and innovation cells have been set up to promote innovative and creative ideas among students and converting their ideas into prototypes.

K L U is a member of the prestigious “All India virtual class room” as a part of the National Knowledge Network initiated by MHRD, Government of India. This network with 1 Gbps capacity enables the students to take advantage of the facilities such as virtual class rooms, virtual laboratories, online journal sharing and participating in video conference lectures. In addition to this the University subscribes to 150 Mbps Internet Facility making it possible to provide internet connectivity round the clock through out the campus and in the hostels.

We at K L university have 226 Doctorates out of 618 as faculty and more than 201 others pursuing Ph.D.

The quality assurance cell is formulated to maintain quality check in teaching-learning and all related matters. All the courses are in-built with usage of animations, ET aids and Webinars. Video conferences are held regularly.

All the class rooms are made into smart class rooms with modern ICT tools like Smart Boards, Video / Web conferencing amenities, LCD Projectors, amphi theatres. Convention Centers have been developed for hosting International Conferences and Seminars.

Software tools have been procured and attached with relevant courses as part of curriculum.

The Centre for Extension Activities has been established to identify problems in rural areas and provide suitable technology interventions.

The IAS Academy is established to train students for appearing in civil services entrance examination.

## **ACADEMIC PROGRAMS AND STRUCTURES**

K L U has been expanding its horizon of higher education and research. It offers under graduate and post graduate programs in Engineering, Sciences, Humanities, Management and Commerce. The university offers 4-year B.Tech program in seven braches of Engineering. Also a unique highly-demanded 4-year B.Com (Hons) program in Accounting & Finance, 3-year BBA, 3-years BHM and also a 5-year BBA with MBA program have been initiated as a part of diversification need of the University. Along with the above, the University has 2-year MBA with three variants viz., General Management with functional specialization, Technology Management, Health care & hospital Management.

The salient features of the academic structure of K L University include highly flexible academic structure with option

to elect instructors in a multi-section course, choice of electives within and across the disciplines, option for degree with specialization and degree with interdisciplinary minor in the B.Tech programs. Practice School of one semester industry internship in one of the semesters of the final year of B.Tech.

To enhance research ability among students the university follows project based labs & open labs system. Further, students are encouraged to work on term papers and publishing papers in reputed journals.

## **RESEARCH IN K L UNIVERSITY**

- **Admission into research programs**

The university has been offering Ph.D programs from the Academic year 2009 – 10. The University also offers its own research fellowships to full time research scholars. Quality research output is envisaged through regular monitoring of the work. The research admissions have led to a number of quality publications – 130 in International journals and 90 in Conference proceedings.

- **Research groups**

In order to enhance R &D and consultancy activities in the University, 46 research groups have been formed to carry on

collaborative research. The groups also deliver quality courses and take research into the class rooms. These groups are actively involved in setting up research labs and obtaining funded research and consultancy projects.

- **Research centers**

To this end, a number of dedicated research centres have been established.

- **Center for advanced energy studies**

With a view to carry on contemporary research in ALTERNATIVE ENERGIES with special focus on Solar Photovoltaic, Solar thermal, Wind and Biomass, K L University has established “**Center for Advanced Energy Studies**” (CAES). CAES identifies areas where government support is available and gets specific projects from MNRE / SECI in these areas. In this process the CAES has got Rs. 1.02 crores sanctioned for its Wind – Solar Power Plant on the roof top of our Administrative office in Vijayawada. CAES is also planning to offer Post graduate courses in alternative energies from A.Y. 2014-15.

- **Advanced studies in atmospheric sciences**

The atmospheric sciences present the challenge of a wide variety of problems of compelling scientific interest and increasing social

relevance. The paramount concern over planet earth and global change are the issues regarding climate change, greenhouse warming, air pollution, the ozone layer, ionospheric anomalies and the demand for reliable long-range weather forecasts on both local and global scales. K L university has established a center for Advanced studies on Atmospheric sciences (ASAS) a multidisciplinary unit that coordinates activities in different university departments in the frontier areas of atmospheric, meteorology and ionospheric sciences by analyzing and modeling the data and there by forecasting atmospheric weather changes. The aim of this center is to understand atmospheric and earth-oceanic processes relevant to the tropics. The key research topics of the center have great relevance to ionosphere, weather and climate especially the Indian summer monsoon, tropical cyclones & associated surges and air quality modeling.

- **Robotics & Mechatronics Center of Excellence**

The centre of excellence in Robotics & Mechatronics concentrates on developing cutting edge R & D technologies specifically for medical sector, Defense, surveillance and construction and at large for various supporting tasks for the betterment of societal and industrial needs. The center emphasizes on developing the R&D outcomes for various electromechanical, MEMS and NEMS based set-ups to support, sense and monitoring the functioning of various

electrical, mechanical, machinery especially those selected to Avionics and Automobiles.

The center is taking up 90 lakhs worth sponsored projects from DST/UGC etc. and is supported by the development grant FIST – 2012 under DST. Technologies involved in this center are:

Manipulation Mechanism, Dynamics and Control, Image and Signal Processing Embedded Systems, Drives and Actuators, Sensors and Data Presentation Systems, DAQ's enveloping the departments of ME, ECE, EEE & CSE.

- **Sponsored research**

A great emphasis is laid down on research and development in K L University. The K L U R&D focuses on the development of product / process oriented technologies for sustainable development. The University has obtained 49 sponsored research projects worth 949.94 lakhs sanctioned by various Government funding agencies viz. UGC, AICTE, DST, DBT, ICMR, DRDO etc.

Four major departments of K L University, Electronics and Communication Engineering, Mechanical Engineering, Computer Science Engineering and Atmospheric Sciences are recognized and funded by DST FIST for infrastructural support of RF and

Microwave Engineering, Robotronics, Networking and GPS Meteorological Labs.

- **Research publications :**

Research has progressed exponentially in K L U. This is reflected in the number of publications made by the faculty members. There are 325 articles published in Scopus Indexed Journals, 30 articles published in SCI Indexed journals & 1214 various other indexed journals till date. 27 books have been published by the faculty.

Sl. No.	Department	No. of Indexed Journal Papers	No. of Conference Papers	Total Papers
		2012-13	2012-13	2012-13
1	Biotech	28	11	39
2	CSE	58	112	170
3	CIVIL	7	41	48
4	ECE	117	111	228
5	ECM	59	38	97
6	EEE	7	73	80
7	FED	106	51	157
8	MBA	2	16	18
9	MECH	12	28	40
	<b>Total</b>	<b>396</b>	<b>481</b>	<b>877</b>

At K L University all the departments are encouraged to organize at least one National / International Conference once a year.



- **Research awards**

I am very proud to report that three of our faculty Dr.A. Srinath, Professor in Mech.Engg., Dr.B.J.K. Singh, Assoc.Professor, Bio Technology and Dr.B.Mahendran, Assoc.Professor, Bio Technology, have received Research awards from UGC in Robotics, Allergy Immunology and Cancer Biology respectively. Six of faculty (3 from BT, 2 from ECE and 1 from ME) got Fast Track Young Scientist Awards from DST. 11 of our faculty got Women Scientist awards from DST.

- **Consultancy**

Consultancy projects worth Rs.64 lakhs have been completed and Rs.14 lakhs continuing Free lance Consultancy is being offered to APHMEL Kondapalli, Railway Wagon Workshop and Endowments Department of AP, NTR University of Health Sciences, Lanco, NALCO.

## **FACULTY DEVELOPMENT INITIATIVES**

The University has established Academic Staff College for the development of the faculty. The Academic Staff College organizes in-house teacher training programs to enhance skills in teaching – learning, effective teaching, teaching pedagogy, out come based education, classroom management, Human values and ICT oriented teaching around 20 such programs have been organized

till date. In addition to this, 3 workshops on English communication skills were conducted to bring about an awareness about its importance in the teaching – learning process. The other area of training is curriculum design and delivery.

In addition to the above, faculty members are encouraged to attend quality improvement programs organized by reputed institutions to update/ upgrade their knowledge and keep abreast with the latest trends in developing technology. They are deputed to industry for training in value added skills. Faculty are also deputed to higher studies like STTP,PDF .

Training is imparted to faculty on regular basis on advancements and usage methods of ET tools and E-learning.

### **INTERNATIONAL CONFERENCES HELD IN KLU**

Department of Electronics and Communication Engineering of our University conducted the International Conference on RF and Signal Processing Systems, 3rd in a row during 26th-27th July 2013 under the technical sponsorship of IEEE.

### **CENTRAL LIBRARY**

The Central Library is an essential component of the University's outstanding research and education mission and occupies a place of pride in the University. It has large volumes and titles of books,

online journals, e-books, CDs & VCDs in sciences, engineering, technology, humanities and management. It is a member of INFLIBNET, ASME, ASCE, IEEE, ACM, MAA, MIS, and Bio pharma International, Geotechnical Engineering, STM JOURNALS, Nature, Science Directory, IE, Computer Society of India, SPRINGER LINK, J Gate, DELNET, EBSCO,PROWSE and national knowledge network. A new multi-storied centrally air-conditioned building to house the Central Library is under construction.

## **INTERNATIONAL RELATIONS**

K L University has signed MoUs seeking academic partnership with foreign Universities. Renowned experts from the following partnering Universities have been visiting us to deliver courses at both UG and PG levels as well as for taking up joint research projects and joint Ph D guidance. We are also working on student exchange programs.

1. State University of New York, Binghamton, NY, USA
2. Indiana State University, Terre Haute, USA
3. University of New Orleans, USA
4. University of Massachusetts, Lowell, USA
5. Jackson State University, Mississippi, USA
6. St. Louise University, USA

7. Devry University, USA
8. Rutgers University, USA
9. Villanova University, USA
10. Auburn University, USA
11. IBSN Incorporation, USA
12. La Trobe University, Australia
13. World Institute for Engg. &Tech Education, Australia
14. Technical University of Cluj Napoka, Romania
15. National College of Ireland, Dublin, Ireland
16. Hanze University, Da Groninzen, Netherlands
17. University of Plymouth, Drake Circus, UK
18. The Robert Gordon University, Aberdeen, UK
19. The Szewalski Institute of Fluid Flow Machinery, Poland
20. Technical University, Germany
21. Dalian University of Technology, China
22. Kumamoto University, Japan
23. Asian Institute of Technology, Thailand
24. University West, Sweden

K L University has become a member of the Indo-US Council for Engineering Education (IUCEE), a prestigious consortium approved by Government of India and Government of the United States of America. As a part of consortium, K L University has been hosting one-week and two-week long International

Workshops in the identified areas for the benefit of faculty of KLU as well as other institutions in the country. IUCEE also deputed subject experts to teach few courses as per our requirements in our campus.

- 7 Professors have taught 8 courses to students of KL University during 2012-13.
- KL University has been making use of the advantage of WEBINARs where in experts from abroad had been delivering classes through web.
- In 2012-13, till date the office of international relations has organized 9 lectures in the form of mini course to all engineering students. A series of 14 WEBINARs were planned during even semester of 2012-13.
- In 2012-13, Odd Semester the Office of International relations has organized 11 webinars in association with IUCEE, for faculty and staff.
- Discussions have been initiated to recruit foreign students from China, Uganda, Sudan, Rwanda, Ethiopia and Nigeria.
- An agreement was made with Storm International Group Pvt. Limited, Australia and Indo World Education Consultancy, Nepal to promote K L University in China, Nepal and other Asian Countries.

- 11 Tanzanian and 3 Nepal students joined in the courses like BBA (5), B.Com (5) and B. Tech (4) in the 2013-14 academic year. Total of 172 foreign students are studying in the University.

## **STUDENT EXCHANGE PROGRAMS**

- ▶ Latrobe University has proposed to depute their 5 MBA students to stay for 5 weeks at KL University to take up Internship. In-turn they would sponsor Tuition Fee Scholarship to one K L University student to do one semester of MBA program at Latrobe. K L University would organize a study tour of 10 MBA students for one week to Melbourne during even semester. Accommodation will be arranged by La Trobe University free of cost.
- ▶ University West, Sweden, provided the opportunity for 3rd year Mechanical Engineering Students of K L University to learn Automation systems used in most modern laboratories located in their Production Technology Center, Trollhatton, Sweden to gain solid practical exposure to key principles in modern industrial automation at their campus in summer.

## **STUDENTS ACHIEVEMENTS**

The University has provided the following avenues for the students community to explore their latent talents:

1. NSS wing – This wing regularly organizes various programs to sensitize the students with respect to their obligation to the society through blood donation camps, tree plantation, conducting AIDS awareness programs and literacy drives in the villages, and distributing fruits, medicines and clothes among the needy.
2. Hobby clubs – Around 22 student bodies and clubs such as music club, Dance club, Drama Club, Literary and speaking club, Photography club, journalism club, painting club, Sports club, cultural club, technical club, Movie club, Trekking club, Designing club, etc operate in the campus wholly managed by the students. Through these clubs every year we organize a national level techno management fest, cultural fest, Women’s day celebrations, Republic day, Independence day, Department fests. K L University student Ordinate (KLUSO) is an official student body of K L University where each and every Kluian by default becomes the member of this ordinate as soon as they get admitted into the university. This will be used as a platform by students for show casing, exploring and moulding their

talent by joining in any of the 22 clubs that exist in KLUSO. This is a dream come true for students of K L U and we proudly say this is one of the finest Universities in Andhra Pradesh which focuses on students extra curricular activities along with their academics. KLUSO is developed with the aim of achieving a mission and vision. The mission of KLUSO is to foster an environment which enhances the art and skills of the student community to circulate the audacious youth who stand as strong pillars in building a dynamic nation. The vision of KLUSO is to continue the mission of the founders of K L Education Foundation in providing the service that contribute to the personal and professional development of our University community.

3. Life skill and Inner Engineering – This University strongly believes that it is its responsibility to mould the students as good human beings. Along with the regular programs every student admitted into KLU undergoes one week of special orientation program on life skills, regularity, implicit obedience, courtesy in speech and conduct cleanliness in dress, are maintained.

A course on ethics under Human Values is introduced. Moreover, summer training programs for campus interviews and self learning



modules are introduced in all courses. Students are made to plan & organize University festivals and are members of decision making committees.

Further, courses in communication skills, soft skills, Professional ethics, aptitude and reasoning, seminars, group discussions are made part of the academic programs. Similarly courses on entrepreneurial thinking, innovation, incubation, are in place. Entrepreneurship Development Cell has been established. All these have been introduced and practiced inculcate lifelong learning and develop employability skills among students.

### **SOCIAL AND CULTURAL ACTIVITIES OF K L UNIVERSITY STUDENT ORDINATE (KLUSO)**

1. KLUSO conducted SURABHI 2013 (cultural festival) during February 23rd and 24<sup>th</sup> with a theme “Culture and Heritage”. The program included large number of events and workshops.
2. GURU PRAJNA, A 3 day Faculty development program, was organized by KLU-Academic Staff College. The session on Day 3, was concluded with a Heart Touching GURU PUJA, by the KLUSO.

3. Vanitha Club of KLUSO organized a rally 'I CARE – I REACT' a Pre Surabhi Social Awareness ride in the College Premises on 20<sup>th</sup> Feb, 2013, protesting against the Illegal and abusing acts on women which were confronting the nation.
4. Student volunteers of Aastha Club (The Service Club) of the K.L. University Student Ordinate (KLUSO) initiated 'Be a Friend', a new programme that envisages reaching out to the under-privileged children in orphanages and other shelter homes. As a part of 'Be a Friend', students imparted coaching to children in Spoken English, Computer basics, General knowledge, and Martial arts.
5. On 12-FEB-2013, Abhinaya Club of KLUSO organized KALAKAAR with Categories of Competitions in skit (drama), Mono-action, Mime, Mimicry, Comedy news reading, Enact a dialogue, Spot acting, and Singing.
6. NRITYA – II: On 23 Jan 2013, Nartana Club of KLUSO Organized Nritya–II a Dance Party providing the platform to all the dancers that show cases their talents. Over 100 Students took active part in this event trying to prove their inherent talent.

7. The members of Vachas club & Abhinaya club participated in the literary & dramatics events of the fest held in Vignan University from 8-9 JAN, 2013.
8. Kargil Vijay Diwas is celebrated on 26<sup>th</sup> July every year in honor of the Kargil War Heroes. On this day KLUSO paid a tribute to all Indian soldiers who sacrificed their lives in Kargil.
9. KLUSO SPORTS: Marking the 3<sup>rd</sup> Anniversary of KLUSO, on 10<sup>th</sup> March 2013 all the clubs of KLUSO had a Sports meet with the whole set of KLUSO Organizers being divided among themselves into different teams
10. KLUSO conducted SAMYAK 2012 (National Techno-Management Festival) during October 5, 6th, 2012 with over 10000 student participants drawn from about 400 Engineering & Management Institutions. The programs included a large number of events and workshops.
11. KLUSO celebrated the Independence Day in the name of SWARAJYA`12. All the clubs of KLUSO took their major part in the celebration.

The students of KLU have won prizes, medals and laurels in various fields of activities. The University feels proud to present a brief account of the achievements of the students.

### Individual Achievements in Games and Sports

Sl. No	Name of the Student	EVENT, DATE & VENUE	Place
1	T. Sai Praneeth IV Year, Civil	All India Inter Collegiate SSN <b>Table Tennis</b> Tournament. 19 <sup>th</sup> to 22 <sup>nd</sup> Aug.2013, Chennai.	1 <sup>st</sup> Place
2	M. Chandra Shekar IV year, ECE	All India Inter Collegiate SSN <b>Table Tennis</b> Tournament 19 <sup>th</sup> to 22 <sup>nd</sup> Aug.2013, Chennai.	1 <sup>st</sup> Place
3	V S S. Koushik III Year Civil	All India Inter Collegiate SSN <b>Table Tennis</b> Tournament 19 <sup>th</sup> to 22 <sup>nd</sup> Aug.2013, Chennai.	1 <sup>st</sup> Place
4	N.P. Sandeep II Year, CSE	All India Inter Collegiate SSN <b>Table Tennis</b> Tournament 19 <sup>th</sup> to 22 <sup>nd</sup> Aug.2013, Chennai.	1 <sup>st</sup> Place
5	P. LAVANYA IV Year,CSE	All India Inter Collegiate SSN <b>Shuttle Badminton</b> Tournament 19 <sup>th</sup> to 22 <sup>nd</sup> Aug.2013, Chennai.	4 <sup>th</sup> Place
6	A.NIKHITHA II Year, CSE	All India Inter Collegiate SSN <b>Shuttle Badminton</b> Tournament 19 <sup>th</sup> to 22 <sup>nd</sup> Aug.2013, Chennai.	4 <sup>th</sup> Place

7	G. VYSHNAVI II Year,CSE	All India Inter Collegiate SSN <b>Shuttle Badminton</b> Tournament 19 <sup>th</sup> to 22 <sup>nd</sup> Aug.2013, Chennai.	4 <sup>th</sup> Place
8	M. TEJASWARO OP IV Year,MECH	Krishna District <b>Weight Lifting</b> Championship, 01-09-13 at Pamarru.	Silver Medal
9	S. S.V.S.NAGEN DRA KUMAR II Year,CSE	Krishna District <b>Weight Lifting</b> Championship, 01-09-13 at Pamarru.	Silver Medal
10	V. LOKESH, I Year, MECH	Krishna District <b>Weight Lifting</b> Championship, 01-09-13 at Pamarru.	Silver Medal
11	P.V.D. ESWAR III Year,CSE	Krishna District <b>Weight Lifting</b> Championship, 01-09-13 at Pamarru.	Bronze Medal
12	K.SANDEEP IV Year,ECE	Krishna District <b>Weight Lifting</b> Championships, 01-09-13 at Pamarru.	Bronze Medal
13	K.SANDEEP IV Year,ECE	Krishna District <b>Body Building</b> Championships 01-09-13 at Pamarru.	Bronze Medal
14	N.P.VENKATE SH III Year,MECH	Krishna District <b>Body Building</b> Championships, 01-09-13 at Pamarru.	Bronze Medal
15	B. MOUNIKA II Year,CSE	Junior Inter District <b>Judo</b> Championship, 19 <sup>th</sup> to 21 <sup>st</sup> October, Khammam.	3 <sup>rd</sup> Place

16	V.Jyothi Surekha I Year,MECH	International Youth <b>Archery</b> Championship, 13 <sup>th</sup> to 20 <sup>th</sup> October, Wuxi in China.	3 <sup>rd</sup> Place
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KL University has been making rapid strides in fostering the academic pursuits. The report shows that the period under review has indeed been remarkable, lively and gratifying.. Among the students who were admitted during 2009-10 academic session, 1652 students belonging to seven different branches of B. Tech program, and 2011-12 academic session, 135 students belonging to ten different specializations of M Tech, 77 belonging to MBA, and 14 belonging to MCA have successfully completed their courses of study and have fulfilled all the academic requirements to receive the degrees.

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