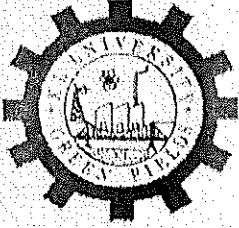


**Minutes 9th BOS Meeting of Computer Science and Engineering,
K L University**

The 9th meeting of the BOS-CSE has been conducted on June 20, 2013 at 1 :00 PM in the Computer Science and Engineering department, K L University.

The following members are present

Serial Number	Name	Designation	Institutions	Signature
1	Dr. D.V.L.N Somayajulu	Professor	NIT Warangal	
2	Sri Muni Reddy	Senior Manager	IBM software Labs, Bangalore	
3	Dr.G.Rama Krishna	Professor	K L University	
4	Dr. K Rajasekhara Rao	Professor	K L University	
5	Dr. V Srikanth	Professor	K L University	
6	Dr.V.Chandra Prakash	Professor	K L University	
7	Dr.J.K.R.Sastry	Professor	K L University	
8	Dr.T.V.Rao	Professor	K L University	
9	Prof.S.Venkateswarlu	Professor	K L University	
10	Dr.K.Subramanyam	Professor	K L University	
11	Dr.M.R.Narasinga Rao	Professor	K L University	
12	Dr.M.S.R.Prasad	Professor	K L University	
13	Dr.Rajeswara Rao	Professor	K L University	
14	Dr.K.V.V.Satyanarayana	Professor	K L University	
15	Dr.Khalim Amjed Meerja	Professor	K L University	
16	Dr. S. Satyanarayana	Assoc. Professor	K L University	
16	Dr.Vijaya babu	Professor	K L University	
17	Sri K.Rajasekhar	Associate Professor	K L University	
18	Dr. V Ramakrishna	Associate Professor	K L University	
19	Sri K.V.D Kiran	Assistant Professor	K L University	



K L UNIVERSITY

Green Fields, Vaddeswaram, Guntur District
Ph: 08645246948, [http:// www.kluniversity.in](http://www.kluniversity.in)

The following Agenda Items are discussed and the resolutions passed are marked against them.

S.No	Agenda Item	Resolution
1	Confirmation of previous minutes of meeting (DAC minutes 9/6/13)	Confirmed
2	Approval of Syllabus for 7 th and 8 th semester of B.Tech(CSE) 2010-2014	Approved
3	Approval of syllabus for 5 th , 6 th , 7 th and 8 th semester of B.Tech of CSE, 2011-2015 and 2012-2016	Approved
4	Approval of structure and syllabus of B.Tech CSE 2013-2017 (Annexure 4D)	Approved

Consequent to these resolutions, the necessary changes shall be carried out in the course structure and framework and the same will be circulated within a week.


Dr. V. Srikanth

Chairman BOS CSE

Minutes of the meeting between IIIT and KLU at Hyderabad on 17th June 2013

Members present

IIIT

KLU

Prof. G. Rama Murthy

Dr. V. Srikanth

Sh. N. Venkatram

1. KLU's B. Tech CSE Syllabus was discussed. IIIT indicated that the syllabus is almost in line with the current requirements of Software Industry, However, to match the exacting requirements they suggested that the following topics be included in the Syllabus.

PROFESSIONAL CORE

I. NETWORKING

- 1.1 Functional Approach (vs) Layering Approach covering the following areas
 - a. Multiplexing,
 - b. Switching,
 - c. Routing
- 1.2 Cross Layer design ideas
- 1.3 Some queuing theory: performance evaluation
- 1.4 Multiple access protocols
- 1.5 Wired network simulation: graph theoretic ideas
- 1.6 Some network programming with adequate practicals
- 1.7 Functional Approach, Book: Kurose, NS2 Simulation, Socket Programming, Windows Sockets, Installation of Switch.
- 1.8 Study of Wired Network Link Security
- 1.9 Practicals on AP. net, Klu network
- 1.10 Lan, Wan design implementation including Lan settings etc (trouble shooting)
- 1.11 Cisco certification CCNA.
- 1.12 Challenging homework problems
- 1.13 Windows Sockets
- 1.14 Page Problem as Home work
- 1.15 Use of TCP, UDP, Protocol Stack Design, HTTP, FTP.
- 1.16 In TCP/IP IPV6 details

II. Computer networks and security

Rename the course to (cryptography & security)

Hacking, IP Spoofing, MAC address Spoofing

Building a Firewall, Web Page Sniffing, TC Dump

Secure production systems for Firewall, Antivirus, Hacking, E-Transactions, Mobile Payments

Knapsack Problems, Lattice Based Cryptography BOOK: Forouzon,

Securing Cloud Computing Systems, Reliability Analysis

Motivation of ECC (key Length) ,Miniproject: Implement Small Key Length ECC on a Hand Held Devices

Need to add Twisty Attacks

III. DLD&CO

Basics, Readymade Systems with example, Pipelining, Superscalar Architectures, Design of COMBINATIONAL Circuit, Sequential Circuits, Relational of Design of LOGIC Gates using Multiplexers, Logical Reasoning Skills (How many BOOLEAN Functions are there for a logic circuit which has n of inputs, Building a Half adder, Full Adder, Architectural Features of Multicore Systems, L1, L2 Cache, VHDL.

Ananth Kumar Books.

IV. HCI&CG

Building a GUI, Functionality and working of Mouse, Speech Interface, Hand based Testers, Recent Trends of Mouse.

V. OS

Recent Trends in Defining Scheduling Algorithms, Cognitive Scheduling, Threading, virtualization, Virtual Machines, Develop a OS.

Tanenbaum Books.

VI. DBMS

Audio, Video Databases, Manipulate Objects, Content Based Image Retrieval.

VII. MP&MC

Multicore Systems, Platform Independence, Lab component, sorting Program in ALP, Features of embedded Systems, Use of MP&MC.

VIII. INTERNET PROGRAMMING

Browser, Speech Interface to The Web, Web 2.0, Web 3.0, Web services.

IX. AFL

Multiple Architecture leading to New Ideas in Automation and Turing machines.

X. SE

Relational Suite, Software Testing, Developing Software with dynamic operation of it, Experimental Approach, Model Based Approach For Software Testing, Modeling of Software.

XI. DAA

Problems In Real time, Practicals, Complexity of a algorithm, Lower Bounds.

Diameter of a graph, Performance Evaluation of RA, All pairs shortest path

XII. Simulation and Modeling

Discrete Event Simulation, Basic Probability (Random Variable, CDF, PDF, Joint & Marginal, Stochastic process, Bernalalli Process, Prinson Process

XIII. AI

Connectionist Models:- Mcculloch Pits Model, PESSAYTRANS, Back Process,

Books: Machine Learning By Tom Mitchell (Decision Tree)

XIV. Distributed Computing

Reliability Studies, Fault Tolerant Distributed Computing, Cooperating LANs.

XV. CO

Writing of a Simple Compiler (Page Will Deal ONLY with Matrix) and Cross Compilers

XVI. Electives

COMPUTER NETWORK STREAM

In High speed networks the optical networks Books: J.Volrand, P.Variya

WCN

Distinguish Between Infrastructure And Adhoc Networks, MANET, 4G, Next Gen Systems, MIMO, Cooperative Comm (Virtual MIMO)Recent Wireless Technologies(WSN).

WEB TECHNOLOGIES STREAM

Semantic web (Web 2.0, 3.0)

Machine Translation, Semantic Web, Semantics of NL, word-sense disambiguation

INTELLIGENT STREAM

Pattern: Reinforcement, Learning, K-Means Algorithm.

Soft Computing: Self Organizing, Genetic Algorithm, Nature Based Computing, CO.

SECURITY STREAM

Cyber security

PARALLEL & DISTRIBUTED COMPUTING STREAM

Parallel architectures: multicore systems

EMBEDDED SYSTEMS STREAM

Cyber physical systems (eg WSN)

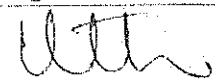



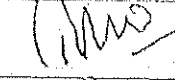
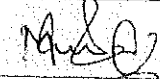

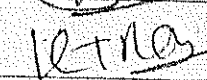




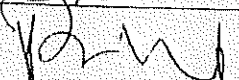
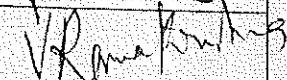

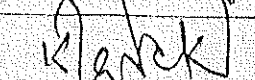
Cyber Physical Systems

2. KLU agreed to review the syllabus as per the above suggestions and revise its syllabus
3. The above suggestions were mailed to Dr. DVLN Somayajulu ,Prof. NIT Warangal and Sh. S. Muni Reddy IBM Labs, Bangalore for their comments

Minutes of 10th BOS Meeting of Computer Science and Engineering,
K L University

The 10th meeting of the BOS-CSE has been conducted on November 18th, 2013 at 2.00PM in the Computer Science and Engineering department, K L University.

The following members are present:-

S.No	Name	Designation	Signature
1	Dr.V.Srikanth	BOS-Chairman	
2	Dr.V.Chandra Prakash	Member	
3	Dr.G.Rama Krishna	Member	
4	Dr.K.Subramanyam	Member	
5	Dr.T.V.Rao	Member	
6	Dr.M.R.Narasinga Rao	Member	
7	Dr.A.Srinivasa Rao	Member	
8	Dr.K.Thirupathi Rao	Member	
9	Dr.V.KrishnaReddy	Member	
10	Dr.B.Thirumala Rao	Member	
11	Dr.D.Rajeswara Rao	Member	
12	Dr.B.Vjaya Babu	Member	
13	Dr.M S R Prasad	Member	
14	Dr.V.RamaKrishna	Member	
15	Dr.Khalim Meerja	Member	
16	Sri.K.Raja Sekhar	Member	



KL University

(Koneru Lakshmalah Education Foundation)

Estd. u/s 3 of UGC Act 1956

Green Fields, Vaddeswaram. (v/c) K.C. Works P.O. - 522 502, Guntur District, A.P.

Phones: 08645-246948, 246615 FAX: 08645-247249, 0866-2577902

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Approved by A.I.C.T.E + Accredited by N.B.A. ISO 9001-2000 Certified

Minutes of 10th meeting of CSE-BOS on 18-11-13

Agenda Point1 Project Based Labs.

Guidelines are formulated and approved

Agenda Point2 Review of B.Tech and M.Tech Curriculum and Syllabus

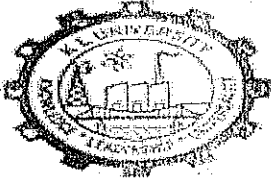
2.1 Approval of previous DAC Minutes (DAC minutes 11/11/13)

2.2 Open Electives.

2.2.1 For 2011 and 2012 batches Introduction to object oriented Programming, Fundamentals of Database Systems and Fundamentals of Software Engineering will be offered as Open electives.

2.2 The Syllabus for Parallel Processing Elective Course has been approved with minor modifications.

Dr. V. SRIKANTH
Head of the Department
Computer Science and Engineering
KL UNIVERSITY
VADDESWARAM-522502, Guntur Dt.



K L University

U/s 2 of UGC Act, 1956
Koneru Lakshmaiah Education Foundation

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MINUTES OF DEPARTMENT ACADEMIC COMMITTEE MEETING

The Department Academic Committee Meeting was conducted in C409, Computer Science and Engineering, on 9th June 2013 at 11.00 AM.

The following Agenda Items are discussed and the resolutions passed are marked against them.

Agenda:


- To discuss feedback obtained from various stake holders.
- To discuss the syllabus and course structure of B.Tech 2013 batch (Annexure-I).

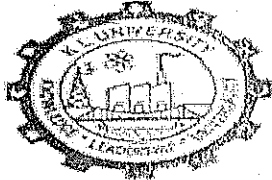
The following members were present:

1. Dr. V.Srikanth
2. Dr. V. CHANDRA PRAKASH.
3. Dr. T. V. Rao.
4. Prof. S. VENKATESWARLU.
5. Dr. K. SUBRAHMANYAM.
6. Dr. M. R. NARASING RAO.
7. Dr. D. RAJESWARA RAO.
8. Dr. M.S.R PRASAD.
9. Dr. K. V. V. SATYANARAYANA
10. Dr. V. RAMA KRISHNA
11. Dr. K. RAJA SEKHAR.
12. Mr. M. VISHNUVARDHAN.
13. Mr. K. V. DIKIRAN.
14. A. Naga Sabarinath (10100416)
15. V. Alakananda (10100242)
16. Himaja (10100325)

The following points were discussed and resolved:

- Upon discussing the feedback from DAC members, resolved to introduce two to three open electives in order to gain more fundamental Knowledge in other department (or) general areas.


PROFESSOR
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VADUVALETTI, GUNTUR DISTRICT



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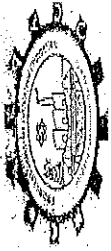
- PO's and PEO's are introduced in Y13 Batch according to Washington Accord or ABET. LTC/Active learning was introduced as per Outcome based education.
- Discussed to change the course name Mathematical methods to Mathematical Methods for Computation in order to standardize the title.
- Engineering Mathematics and Advanced Engineering Mathematics are renamed as Linear algebra and Multivariate Calculus, Differential Equations Respectively, as the course name should be specific.
- Upon discussing the feedback from DAC members, it is resolved to introduce Thermodynamics and Network Theory in Engineering Sciences (AICTE model Curriculum Recommendation).
- As per ACM Computer Engineering model curriculum 2004, it is recommended to include Signal Processing in Engineering Sciences.
- According to ACM knowledge area, it is suggested to change the name of Cryptography and Network Security as Information Assurance security.
- Upon discussion, it is resolved to introduced new course Simulation and Modelling as per the guidelines of ACM Curriculum.
- Upon discussing the feedback from DAC members, in order to enhance Research and Publications, it is resolved to continue the Term Paper as minor project and finally as major project to come up with publications.
- In order to implement LTC effectively, it is suggested to allot three faculty for each core course.
- In order to emphasize more on machine Learning and upcoming Technologies, it is resolved to change Artificial Intelligence from elective to core course.
- It is suggested to add the Graph theory concepts to the Data Structures Course.

All programs for 2013-14 has been framed to be in relevance to APIIC, Human Resource Development Policy, Govt. of India, National Skill Development Corporation, Govt. of India, Confederation of Indian Industries, ABET, NBA norms, O*NET and AICTE statutory norms. Thus, framed curriculum has been developed through framing of Program Educational Objectives (PEO's) which are mapped to the university Vision and Mission, which are there by disseminated into Student Outcomes (SO's) which thereby have been developed into relevant Course Outcomes (CO's).

The resolutions are forwarded to BOS committee, for the approval.

HOD-CSE
PROFESSOR

Computer Science and Engineering
K L UNIVERSITY
VADESWARAM-522 502, Guntur District



KONERU LAKSHMAIAH EDUCATION FOUNDATION
(Deemed to be University) ESTD. U/S 3 OF THE JEC ACT, 1958
(NAAC Accredited "A" Grade University)

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
R13 Annexure (B.Tech)-I

Sno	Course Code	Course Title	L-T-P	Credits	SNO	CO NO	Description of the Course Outcome	Program Outcomes (POs)												Type	Rationale												
								a	b	c	d	e	f	g	h	i	j	k	l			1	2										
1	13-HS-101	English	2-0-2	3	1	CO 1	Understand the concept of Group Discussion and listen and speak effectively during the discussion.																			Modified from the previous syllabus	This course helps to gain knowledge on professional communication skills						
					2	CO 2	Understand and improve learners' competency in competitive English and apply the principles of grammar in real life contexts.																										
					3	CO 3	Understand skimming & scanning, and apply the types of reasoning in comprehending the information.																										
					4	CO 4	Understand the mechanics and application of presentation skills.																										
					5	CO 1	Understand the method of identifying synonyms and antonyms and analyze the meaning of a word from the context.																										
2	13-HS-102	Language and Reasoning Skills	2-0-2	3	6	CO 2	Analyze issues and arguments in the process of critical reasoning and apply grammar rules to correct sentences.																				New Course is Added	This course helps to gain knowledge on professional communication skills					
					7	CO 3	Apply the Concepts of basic Algebra and their importance while solving the problems																										
					8	CO 4	Apply the short-cut methods on the concepts of different models in Calendars, Clocks, Blood relations and various types of arrangements.																										
					9	CO 1	Understand the importance of Environmental education and conservation of natural resources.																										
3	11-BS-105	Ecology & Environme	2-0-0	2	10	CO 2	Understand the importance of ecosystems and biodiversity.																			Modified from the previous syllabus	This course helps in understanding the nature and react it						

Dr. G. Krishna Mohan
 Associate Prof
 Computer Science & Engineering
 Koneru Lakshmaiah Education Foundation

Sno	Course Code	Course Title	I-T-P	Cred its	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale								
								a	b	c	d	e	f	g	h	i	j	k										
								PSO																				
4	13-JHS-104	Human Values	2-0-0	2	11	CO-3	Apply the environmental science knowledge on solid waste management, disaster management and EIA process.													1	New Course is Added	This course helps to interact with other human resources humanly						
					12	CO-1	Understand and identify the basic aspiration of human beings																		1			
					13	CO-2	Envisage the roadmap to fulfill the basic aspiration of human beings.																			2		
					14	CO-3	Analyze the profession and his role in this existence.																			2		
5	13-BS-101	Linear Algebra and multivariate calculus	3-0-2	4	15	CO-1	Determine extreme values for functions of several variables														2	Modified from the previous syllabus	This course helps to use mathematics for computer science applications					
					16	CO-2	Determine area, volume moment of inertia through multiple integrals in Cartesian or polar co ordinates.																			2		
					17	CO-3	Apply the concepts of vector calculus to calculate the gradient, directional derivative, arc length, areas of surfaces and volume of solids in practical problems																				2	
					18	CO-4	Obtain analytical and numerical solutions of Heat and wave equations																				2	
6	13-BS-102	Differential Equations	3-1-0	4	19	CO-1	Formulate physical laws and relations mathematically in the form of first order differential equations and identify a method for solving and interpreting the results.															1	Modified from the previous syllabus	This course helps to use mathematics for computer science applications				
					20	CO-2	Formulate physical laws and relations mathematically in the form of second/higher order differential equations and identify a method for solving and interpreting the results.																				2	
					21	CO-3	Provide solutions for Fourier series of periodic/non-periodic phenomenon in models involving differential equations.																					1
					22	CO-4	Apply numeric solution methods for a system of linear algebraic equations and application oriented matrix eigenvalue problems.																					1

Dr. G. Krishna Mohan
Alternate HOD

Computer Science & Engineering
B. J. Somaiya Institute of Technology & Sciences
Green Field, VADGA, Tal. Chhatrapati Sambhaji Maharaj, Dist. Solapur

Sno	Course Code	Course Title	L.T.P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale							
								a	b	c	d	e	f	g	h	i	j	k			PSO 1	PSO 2					
7	13-BS-103	Engineering Physics	3-0-2	4	23	CO-5	Verify the solution of problems through MATLAB												1		Modified from the previous syllabus	This course helps to use principles of physics in computer science applications					
					24	CO 1	Understands structure of crystalline solids, kinds of crystal imperfections and appreciates structure-property relationship in crystals.																				
					25	CO 2	Understands magnetic properties of materials and identifies their role in classification soft & hard magnetic materials having specific engineering applications.																				
					26	CO 3	Understands thermal and mechanical properties of materials, heat treatment methods for changing the microstructure of materials and responses of materials subjected to load.																				
					27	CO 4	Understands the role of electronic energy band structures of solids in governing various electrical and optical properties of materials.																				
8	11-BS-104	Engineering Chemistry	3-0-2	4	28	CO 1	Describe some important design considerations in choosing a battery for a specific application.															Modified from the previous syllabus	This course helps to use principles of physics in computer science applications				
					29	CO 2	Predict potential complications from combining various chemicals or metals in an engineering setting																				
					30	CO 3	Examine water quality and select appropriate purification technique for intended problem																				
					31	CO 4	Explain the role of chemical kinetics in the formation and destruction of ozone in the atmosphere and predict the connection between molecular behavior and observable physical properties.																				
					32	CO-5	An ability to analyze & generate experimental skills.																				
					33	CO 1	Apply the concept of sets, relations, functions, discrete structures, Sum rule and product rule.																				

Dr. G. Krishna Mohan
Associate Prof.

Computer Science & Engineering
K. J. Somaiya Institute of Engineering & Information Technology
(Deemed to be University)
Green Field, Gandhinagar, Wankesha Road, Mumbai - 400 075

Sno	Course Code	Course Title	L.T.P	Credits	S.NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale													
								a	b	c	d	e	f	g	h	i	j	k			PSO												
								1	2	1	2	1	2	1	2	1	2	1				2											
9	13-BS-206	Discrete Mathematics	3-0-0	3	34	CO 2	Apply Count discrete event occurrences; Apply Propositional logic and First order logic to solve Problems																	Modified from the previous syllabus	This course helps to use mathematics for computer science applications								
							Apply Advanced Counting Techniques, Formulate and solve recurrence relations, Apply Lattice theory																										
							Apply the concepts of graphs and trees																										
							Understand the concepts of crystallography and crystalline imperfections in order to determine crystal structures and to identify defects in crystals																										
10	13-ES-103	Engineering Materials	3-0-0	3	37	CO 1	Understand electrical and optical properties of materials and apply them to know various mechanisms involved in electrical, electronic, optical, optoelectronic devices.																		Modified from the previous syllabus	This course helps to use principles of materials in computer science applications							
							Understand mechanical and thermal properties of materials and comprehend their importance in identification of materials for specific engineering applications																										
							Understand magnetic properties of materials and apply them to know various mechanisms involved in magnetic memory devices and transformers.																										
							Understand various properties of materials and apply the knowledge to execute the related experiments to get hands on experience and also to develop some inter disciplinary projects.																										
							Understand and apply the fundamentals of a measurement system, characteristics, and metrology using simulation and experimentation tools.																										

Dr. G. Krishna Reddy
APRIL 2020

Computer
Konduru Lakshmi
Department of Computer Science
Green Fields, VADAPATI, SRIKACAPURAM

Sno	Course Code	Course Title	L.T.P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale					
								a	b	c	d	e	f	g	h	i	j	k			1	2			
11	13-ES-102	Measurements	3-0-2	4	43	CO-2	Understand various electrical & computer parameters, and apply different measuring techniques on various electrical parameters using simulation and experimentation tools.	2	2											Modified from the previous syllabus	This course helps in understanding basics of electrical engineering				
							Understand electronic & electro-physiological parameters, and apply measuring techniques on electronic parameters using simulation and experimentation tools.	2	2																
							Understand and apply different measuring techniques on civil and mechanical parameters using simulation and experimentation tools.	2	2																
							Apply the theoretical concepts to measure different parameters	2																	
							Draft orthographic Projections, Isometric views, projection of planes, Manually and prepare Models in workshop by using drawings.																		
12	11-ES-104	Engineering Graphics with CAD	0-0-4	2	47	CO 1	Draft orthographic Projections, Isometric views, projection of planes, Manually and prepare Models in workshop by using drawings.													Modified from the previous syllabus	This course helps use of engineering graphics in computer graphics skill development				
							Draft orthographic projections, isometric views, projection of planes using Autocad. Draft projection of solids Manually and by using AutoCAD and prepare Models in workshop by using different workshop trades																		
							Draft Development of surfaces of solid and sections of solid Manually																		
							Practicing house wiring through Auto Cad																		
							Develop 2D & 3D components using Auto Cad Software																		
13	13-ES-105	Workshop Practice	0-0-4	2	53	CO 1	Hands on practice on wood working operation using hand tools													Modified from the previous syllabus	helps in knowing fundamentals of work shop practice				
							Hands on practice on sheet metal working.																		
							Hands on practice on moulding by preparing a sand mould																		
							Hands on practice on Soldering by mounting electronic components																		

Computer Engineering
 Koneery Labs
 Foundation
 (PVT) Ltd.
 Green Field

Sno	Course Code	Course Title	L.T.P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale									
								a	b	c	d	e	f	g	h	i	j	k			PSO								
								1	2	1	2	1	2	1	2	1	2	1				2							
14	13-ES-101	Problem Solving through Programming	3-0-2	4	56	CO 1	Illustrate how problems are solved using computers using operators and different number types, functions.																	Modified from the previous syllabus	Basic programming course to know and use algorithms and implement using c programming				
					57	CO 2	Illustrate and use Control Flow Statements in C along with preprocessor directives and Storage classes.																						
					58	CO 3	Interpret & illustrate different formatted input and output along with arrays and pointers with arrays.																						
					59	CO 4	Illustrate the use of Pointer Arithmetic along with arrays, Characters and Strings.																						
15	13-ES-106	Engineering Mechanics	3-0-2	4	60	CO 1	Apply the concept of forces, governing static equations and analyze planer system of forces. Apply different analytical methods on spatial system of forces and analyzing them																		Modified from the previous syllabus	helps in understand engineering mechanics			
					61	CO 2	Understanding the concepts of planar and non-planar system of parallel forces and analyzing them. estimate moment of inertia of lamina and material bodies																						
					62	CO 3	Analyzing the rigid bodies under translation and rotation with and without considering forces.																						
					63	CO 4	Understanding the engineering mechanics physical systems prepare and demonstrate the models with the help of mechanics concepts to solve the engineering problems																						
					64	CO 5	Apply the concepts of mechanics and carryout different experiments and analyze the results																						
					65	CO-1	Understand the fundamentals of thermodynamic systems and processes																						
					66	CO-2	Apply laws of the thermodynamics and principle of entropy to engineering devices.																						

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Sno	Course Code	Course Title	L-r-P	Credits	S.NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale						
								a	b	c	d	e	f	g	h	i	j	k			PSO					
								1	2	1	2	1	2	1	2	1	2	1				2				
15	13-ES-201	Thermodynamics	3-0-0	3	67	CO-3	Analyze various air standard cycles and their performance.	2														Course is Added	thermodynamics and logic building			
					68	CO-4	Evaluate the performance of fuels and combustion to various engines.	1																		
					69	CO-5	Apply the theoretical concepts to conduct various experiments of thermodynamics practically and analyze the data.	2																		
					70	CO-1	Understanding network theory	2																		
					71	CO-2	Apply concepts of electrical networks	2																		
17	13-IS-205	Network Theory	3-0-2	4	72	CO-3	Analyse concepts of electrical networks	2																		
					73	CO-4	Analyse concepts of electrical networks topologies	2																		
					74	CO-1	Demonstrate signals and their Spectra	2	2																	
					75	CO-2	Analyze discrete time systems	2	2																	
18	13-ES-205	Signal Processing	3-0-2	4	76	CO-3	Design filters to cater signal analysis needs																			
					77	CO-4	Analyze non stationary signals in time																			
					78	CO-5	Analyze non stationary signals in frequency domains																			
						CO-1	The student will be able to understand Basic Concepts of OOP, apply the concepts of classes and objects through Java Language.	2																		
					79	CO-2	The student will be able to apply the concepts of constructors, Overloading, parameter passing, access control, Inheritance.	2																		
19	13-ES-202	Object Oriented Programming	3-0-2	4	80	CO-3	The student will be able to apply Packages, Interfaces, Exception Handling.	2																		
					81	CO-4	The student will be able to apply I/O Streams and understand Basic Concepts of Multi-Threading.	2																		
					82			2																		

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 Alternate: HDD
 Computer Science & Engineering
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Sno	Course Code	Course Title	L.T.P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale												
								a	b	c	d	e	f	g	h	i	j	k			PSO 1	PSO 2										
22	13 CS 203	Operating Systems	3-0-2	4	95	CO2	Apply the concepts Process Scheduling algorithms and Process Synchronization Problems.	2															New Course is Added	Basic management of computer system taught for skill development								
					96	CO3	Solve the concept of the Deadlock, Memory Management and Virtual Memory Concepts.	2																								
					97	CO4	Demonstrate file system interface, structure, file allocation methods, free space management and threads.	1																								
					98	CO5	Create and develop a project along with his/her team members.																									
					99	CO1	Explain the advantages of DBMS, its Characteristics, Concepts and ER-Model.	1																								
23	13 CS 204	Data Base Management System	3-0-2	4	100	CO2	Demonstrate Relational Database using SQL detailing the role of Relational Algebra and Relational Calculus	2																Modified from the previous syllabus	coding and data retrieval used in application development is taught for employability and skill development							
					101	CO3	Illustrate the normal forms of Relational DBMS detailing the process of normalization.																									
					102	CO4	Examine Transaction Management, Concurrency Control, File Organizations, Indexing, and Storing data.																									
					103	CO5	Create and Access Data Base for given Applications	2																								
					104	CO1	Understand OSI and TCP/IP Models and basics of physical layer and their issues	1																								
					105	CO2	Demonstrate Data Link layer issues and medium access control sub layers concepts																									

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Alternate HOD

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Green Fields VADYARAJANAM COLLEGE

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											PSO	Type	Rationale										
								a	b	c	d	e	f	g	h	i	j	k													
								1	2	3	4	5	6	7	8	9	10	11				12									
24	13 CS 205	Computer Networks	3-0-2	4	106	CO3	Analyze and implement the algorithms of network and transport layers and concerned services				2									2	New Course is Added	Basic principles of networking is taught for skill development									
										3														2							
										2																2					
										2																	3				
										1																		3			
25	11 EM 301	Internet Programming	3-0-2	4	111	CO3	Design java applications using multithreading, Applets, Design results processing application using JSP				2										3	Retained from previous syllabus	All modern webbased development taught for Skill Development								
										2																3					
										2																		3			
										2																			3		
										1																				3	
26	13 cs 301	software engineering	3-0-2	4	112	CO4	Describe and Illustrate the concepts of HTML tags, and CSS through an application, DHTML, JavaScript functions				2											3	New Course is Added	principles of software development taught for Skill Development							
										2																		3			
										2																				3	
										2																					3
										1																					
							Examine the space and time complexities of basic algorithms																		2						

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 Computer Science & Engin
 Koneru Lakshmaiah Education Fo
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Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale							
								a	b	c	d	e	f	g	h	i	j	k			FSO	FSO					
																							1	2			
27	13 cs 302	Design and Analysis of Algorithms	3-0-2	4	119	CO2	Demonstrate Greedy and Dynamic programming methodology for solving optimization problems															New Course is Added	fine tuning and design of algorithms for the requirement for skill development				
						CO3	Apply back tracking and branch and bound methodology for searching same state space trees																				
						CO4	Identify the purpose of NP-hard, NP-complete hard graph problems and illustrate PRAM algorithms	1																			
						CO1	Understand various Number systems, Codes and their conversion procedures and Complements of numbers used in Digital Systems																				
						CO2	Apply Boolean Identities for simplifying Boolean Expressions, Combinational and Sequential Circuits.																				
28	13CS201	Digital Logic Design & Computer Organization	3-0-2	4	123	CO3	Understand the functionality and design the CPU functional units - control unit, registers, the arithmetic and logic unit, the instruction execution unit, and the interconnections among these components.															New Course is Added	Enhance the skills in study towards digital circuit design and its organization towards employability				
						CO4	Understand, analyze and design main, cache and virtual memory organizations.																				
						CO5	Demonstrate the basic concepts of Digital logic in the Laboratory																				
						CO1	Illustrate and examine conventional cryptographic procedures																				
						CO2	Illustrate and examine modern cryptographic and hash algorithms																				
29	13 cs 303	Information Assurance and Security			129	CO3	demonstrate and study MAC and digital signature algorithms															New Course is Added	Skill Development in learning various Security techniques and tools				
						CO2	illustrate and examine modern cryptographic and hash algorithms																				
						CO1	illustrate and examine conventional cryptographic procedures																				
						CO5	Demonstrate the basic concepts of Digital logic in the Laboratory																				

Alternate HOD
 Computer Science & Engineering
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 Pimpri Chinchwad
 Pimpri Chinchwad

Sno	Course Code	Course Title	L.T.P its	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)										Type	Rationale												
								a	b	c	d	e	f	g	h	i	j			k											
																				1	2										
					130	CO4	demonstrate and study key management distributions				1	2	2																		
					131	CO1	Students will be able to apply PROLOG programming for the AI concepts						2																		
					132	CO2	Students will be able to relate methods for encoding Knowledge In computer systems				1																				
					133	CO3	Students will be able to Interpret the Problems and search related to AI				1																				
30	CS 304	Artificial Intelligence	3-0-2	4	134	CO4	Students will be able to infer Slot-and-filler structures and architecture of neural networks as connectionist models				1																				
					135	CO5	Demonstrate the basic concepts of artificial intelligence in the Laboratory						2																		
					136	CO1	Distinguish centralized computing and distributed computing detailing formal model of a distributed message passing system and the complexity measures of message passing between systems presenting important abstractions for designing distributed programs							2																	
					137	CO2	Identify the leader by coordinating among processors, elaborating formal models for shared memory system and memory requirement for solving mutual exclusion problem.					2																			

Dr. G. K. Rishina Moha
 Alternate HOD
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 Green Fields, VADDESWARAM-52

Sno	Course Code	Course Title	L.T.P	Credits	SNO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											PSO	Type	Rationale					
								a	b	c	d	e	f	g	h	i	j	k								
31	13 CS 305	Distributed Computing	3-0-2	4	138	CO3	Utilize DSM model for inter process communication showing relationship between various types of shared objects and Identify clock synchronization problem applying tight bounds to synchronize clocks.																	3	New Course is Added	BASIC PRINCIPLES OF distributed software over networking environment is taught for skill development
					139	CO4	Examine the process of realizing reliable fault tolerance in distributed systems reflecting the specific type of faulty behavior and illustrate Byzantine failures appear to be crash failures																	3		
					140	CO5	Experiment with laboratory programs and develop a small project along with his/her team members.																	3		
					141	CO1	The Student will be able to define & represent finite Automata and its variations & construct Finite Automata for accepting different kinds of regular languages and their inter conversions																	1		
					142	CO2	The student will be able to define regular sets, its properties and its rationale with pumping lemma of Regular Sets & Construct Finite Automata from regular languages and vice-versa																	1		

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Alternate HOD

Computer Science & Engineering
Koneru Lakshmaiah Education Foundation
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Green Fields, VADDESWARAM-522 102
Guntur District, Andhra Pradesh.

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)										PSO	Type	Rationale													
								a	b	c	d	e	f	g	h	i	j				k												
32	13 CS 306	Automata and Formal Languages	3-0-2	4		CO3	The Student will be able to describe grammars, its representation and the foundation for parsing mechanism of language semantics and constructing context free grammars for different languages															1	New Course is Added	system design concepts are taught for skill development									
								143																									
								144																									
33	13 CS 401	Compiler Design	3-0-2	4		CO1	Understand the overall compiler architecture and design of Lexical Analyzer																	2	new course introduced	useful for the skill development, good to design new languages							
								146																									
								147																									
						CO2	Construct the parser using the Yacc tool																		2								
								148																									
								149																									
						CO3	Analyze Syntax directed definition and its translations schemes, intermediate code																		2								
								150																									
								151																									
						CO4	Apply the code optimization and generation techniques in the development of a compiler.																		2								
								152																									
								153																									
						CO5	Design of simple compiler using LEX and YACC tools																		2								
								154																									
								155																									
						CO1	Understand the History and need of Simulation and Modeling with Examples.																		2								
								156																									
								157																									
						CO2	Analyze Various general principles, Statistical and Queuing Models.																		2								
								158																									
								159																									

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Computer Science & Engineering
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Green Fields, VADESWARAM-522 238

Sno	Course Code	Course Title	L-T-P	Credits	SNO	CO NO	Description of the Course Outcome	Program Outcomes (POs)													Type	Rationale						
								a	b	c	d	e	f	g	h	i	j	k										
								1	2																			
34	13 CS 402	simulation and modelling	3-0-2	4	153	CO3	Analyze Simulation of Input Modeling and Verification and Validation of the Models			2													new course introduced	Add knowledge towards stochastic models and helps in self development				
						CO4	Apply the Simulation on Manufacturing Systems, Computer System and Computer Networks.			2																		
						CO5	Develop the basic concepts of Simulation and Modeling			2																		
35	13 CS 331	Data Warehousing and Mining	3-0-0	3	156	CO1	Student should be able to Understand the necessity of data preprocessing in construction of data warehouse.			1														New Course is Added	working on tools of data warehousing increases the chances of employability			
						CO2	Student should be able to Analyze multidimensional data using OLAP tools to facilitate effective data mining.			2																		
						CO3	Student should be able to Apply the concepts of data analysis and clustering to postulate accurate classification model for a given problem.			2	2																	
						CO4	Student should be able to Recommend a methodology for mining complex data types and detection of anomaly for the given Application.			3																		
						CO1	Understand the fundamentals of query optimization and database recovery protocols.			1																		
36	13 CS 332	Advanced Database Management Systems	3-0-0	3	160	CO2	Analyze emerging database technologies and distributed databases.			2													New Course is Added	modern databases are taught for employability				
						CO3	Discriminate object oriented and relational database systems.			2																		
						CO1	Understand the fundamentals of query optimization and database recovery protocols.			1																		

Dr. G. Krishna Moha
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 (Deemed to be University)
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Sno	Course Code	Course Title	L.T.P	Credits	S.NO	CO.NO	Description of the Course Outcome	Program Outcomes (POs)													Type	Rationale					
								a	b	c	d	e	f	g	h	i	j	k									
								PSO																			
37	11 CS 433	Big Data Analytics	3-0-0	3	163	CO4	Analyze multimedia databases.			2																	
					164	CO1	Explain the big data that is emerging from multiple big data sources in terms of velocity, variety and veracity		1																		
					165	CO2	Illustrate the technologies, processes and methods for analyzing big data					2															
					166	CO3	Demonstrate the key principles of data analysis using the R tool					2															
					167	CO4	Examine advanced Graphs, Regression, Forecasting and Time Series models using R analytical platform.																				
					168	CO1	Understand the fundamentals of database security and security risks related to user administration		1																		
					169	CO2	Apply password policies and security models						2														
					170	CO3	Analyze virtual private database using views in SQL Server 2000 and Oracle 10g and understand database auditing, auditing models		2																		
					171	CO4	Apply auditing techniques on the real world problems using Oracle 10g and SQL server 2000		2																		
38	13 CS 333	Database Security	3-0-0	3	172	CO1	Summarize distributed databases			1																	
					173	CO2	Analyze parallel database for searching, sorting, join and group by join.			2			2														

Dr. G. Krishna Mohi
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Computer Science & Engineer
Kannur Lakshminah Education For
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Poochikkal, VAODESWARAIP-5

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)										Type	Rationale							
								a	b	c	d	e	f	g	h	i	j			k	PSO 1	PSO 2				
39	13 CS 431	Distributed Databases	3-0-0	3	174	CO3	Apply parallel database for indexing, collection of join query, scheduling, optimizing, transactions in Distributed, Grid Databases and Grid Concurrency Control.	2													new course introduced	Enhance the skills in study towards distributed databases and enhance the option towards employability				
						CO4	Illustrate grid transaction atomicity, durability, replica management and data intensive applications.	2										3								
						CO1	Understand the basic components of TCP Protocol suite.	1												3						
						CO2	Understand the concepts of IP protocol, mobile IP, P Addressing mechanisms & attacks on IP	1																		
40	13 CS 334	TCP/IP Protocols	3-0-0	3	177	CO3	Apply socket API to write programs related to client server communication															New Course is Added	Internet kind of protocols are taught for Employability			
						CO4	Analyze Various Networking Applications & Network management techniques via a case study/ NS2 simulator tool.																			
						CO1	Student will be able to Understand the key components of Network Programming																			
						CO2	Student will be able to Apply socket API for TCP and UDP to write programs related to Client/Server communication																			
41	13 CS 335	NETWORK PROGRAMMING	3-0-0	3	179	CO1	Student will be able to Understand the key components of Network Programming															New Course is Added	Helps towards employability as networking experts			
						CO2	Student will be able to Apply socket API for TCP and UDP to write programs related to Client/Server communication																			
						CO3	Student will be able to Analyze various Advanced Sockets & Networking Applications through Unix domain protocols and Routing Sockets																			
						CO3	Student will be able to Analyze various Advanced Sockets & Networking Applications through Unix domain protocols and Routing Sockets																			

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Alternate HOD

Sno	Course Code	Course Title	L-T-P	Credits	SNO	CO NO	Description of the Course Outcome	Program Outcomes (POs)													Rationale									
								a	b	c	d	e	f	g	h	i	j	k	PSO											
																			1	2										
42	13 CS 336	Routing Algorithms	3-0-0	3	183	CO4	Student will be able to construct multiple threads that communicate with each other using Sun RPC	1										1	2	3	Helps towards employability as networking experts									
								1															3	New course introduced						
																										3				
																											3			
																											3			
																												3		
43	13 CS 433	High speed Optical Communication Networks	3-0-0	3	188	CO1	Understand the basics of light signals and different types of optical communication link methodologies													2	Helps towards employability as networking experts									
																									2					
																											2			
																												2		
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 Guntur District, Andhra Pradesh

Sno	Course Code	Course Title	L-T-P	Credits	S.NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale					
								a	b	c	d	e	f	g	h	i	j	k			PSO	PSO			
								1	2	3	4	5	6	7	8	9	10	11					12		
47	13 CS 435	Software Reliability	3-0-0	3	203	CO4	Infer Practice the different roles in the requirement engineering process, by working in groups analysis	1											2						
						CO1	Explain software Reliability measures viz., mean time to failure, Failure Rate Function,	1														2			
						CO2	Illustrate software verification, validation and their relation to software reliability	1															2		
						CO3	Demonstrate estimation of reliability using failure data of a software product and software cost model based on software reliability	1															2		
						CO4	Examine a suitable reliability model for the product																2		
48	13 CS 339	Software Testing & Quality Assurance	3-0-0	3	208	CO 1	Ability to define software systems by using various testing principles followed by test processes by inferring test generation methods and FSM models.	1												2					
						CO 2	Make test adequacy assessment with the help of various source tools and application of those techniques in commercial environment.	2														2			
						CO 3	Analyze and prepare quality management by considering governmental standards, pareto principles and up-front quality technique.	2																2	

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Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)												Type	Rationale								
								a	b	c	d	e	f	g	h	i	j	k	PSO										
																			1			2							
49	13-CS-430	Software Project Management	3-0-0	3	211	CO4	Relate the concepts of software safety and its relation to software quality assurance for the development of small projects.					3												new course introduced	Helps towards employability as Software Engineering experts				
					212	CO1	Ability of the students to Develop project plans for different types projects																						
					213	CO2	Ability to estimate time, cost, effort, resource requirements and the quality																						
					214	CO3	Ability to undertake risk management for a given project																						
					215	CO4	Ability to handle different tools using which project management is undertaken																						
50	13 CS 340	SECURE PROGRAMMING	3-0-0	3	216	CO1	Students will be able to Define the concept of Secure Systems Design, Security Goals, Secure Design Principles.																	New course introduced	Helps towards employability as Security and Forensics experts				
					217	CO2	Students will be able to show the Client-State Manipulation with SQL Injection for Password Security and Cross-Domain Security in Web Applications																						
					218	CO3	Students will be able to find Static Analysis as Part of the Code Review Process and procedure for Handling Input Buffer Overflow																						
					219	CO4	Students will be able to List the process of Errors and Exceptions in Web Applications, XML and Web Services with the help of Privacy And Secrets Privileged Programs																						


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 Kanara, Karnataka
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Sno	Course Code	Course Title	L.T.P	Credits	S.NO	CO.NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale				
								a	b	c	d	e	f	g	h	i	j	k						
								1	2	1	2	1	2	1	2	1	2	1			2			
51	13 CS 341	CRYPTA ANALYSIS	3-0-0	3	220	CO1	Understand the classic ciphers and world war II ciphers	1											3	New course introduced from previous syllabus	Helps towards employability as Security and Forensics experts			
						CO2	Understand the Stream Ciphers and Block Ciphers		2														3	
						CO3	Illustrate and Examine Hash Functions	1																3
						CO4	Describe the Public Key System and analyze the Attacks on Public Key System		2															3
52	13 CS 342	Elliptic curve Cryptography	3-0-0	3	223	CO1	Understand the Equations, Laws and Proofs for Elliptic Curve	1												2	New course introduced	Helps towards employability as Security and Forensics experts		
						CO2	Understand the Torsion Points, Elliptic Curve Over Finite Fields		1															2
						CO3	Understand the Discrete Logarithm Problem, Elliptic Curve Cryptography		1	1														2
						CO4	Understand the Applications, Divisors, Hyper Elliptic Curves.		1	1														2
51	13 CS 343	Web Security	3-0-0	3	224	CO1	Illustrate Web Application (In) security, Core Defense Mechanisms, Web Application Technologies, Mapping the Application, Bypassing Client-Side Controls.	2												2	New course	Helps towards employability as		
						CO2	Analyze Attacking Authentication, Attacking Session Management, Attacking Access Controls, Attacking Data Stores, Attacking Back-End Components.		2															2
						CO3	Understand the Security of Web Applications, Attacking Web Applications, Attacking Web Services, Attacking Web APIs.																	

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Alternate HOD

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Sno	Course Code	Course Title	L-T-P	Credits	S.NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale						
								a	b	c	d	e	f	g	h	i	j	k			PSO 1	PSO 2				
53	13 CS 437	Cyber Security	3-0-0	3	230	CO3	Categorize Attacking Application Logic, Attacking Users: Cross-Site Scripting, Attacking Users: Other Techniques, Automating Customized Attacks, Exploiting Information Disclosure.		2												introduce d	Security and Forensics experts				
					231	CO4	Inspect Attacking Native Compiled Application, Attacking Application Architecture, Attacking the Application Server, Finding Vulnerabilities in Source Code.		2																	
					232	CO1	Students are able to understand importance of system reliability using common statistical distributions and the importance of reliability models.		1	1																
					233	CO2	Students are able to analyze security risk by using quantitative models and stopping rules in software testing.		2																	
54	13 CS 438	Trust Worthy Computing	3-0-0	3	234	CO3	Students are able to analyze availability modeling and investigate the reliability in simple and complex embedded systems, Introduction to Microsoft TWC.		2	2													2	2	New course introduced	Helps towards employability as Security and Forensics experts
					235	CO4	Students are able to understand applications of aspect-oriented programming in trustworthy computing.		2																	


Dr. Lakshmi Mohan
 Alternate HOD

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 Green Fields, VADESWARAM-1
 Guntur District, Andhra Pradesh

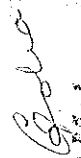
Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											PSO	Type	Rationale					
								a	b	c	d	e	f	g	h	i	j	k				l	2			
55	13 CS 343	Advanced Computer Architecture	3-0-0	3	236	CO1	Student will be able to Understand the Overview of von Neumann architecture and Pipelining	1												2	New course introduced	Helps towards employability for expertized knowledge in Multi core, Grid and Cloud Technologies				
					237	CO2	Student will be able to Demonstrate Hierarchical Memory Technology	1																2		
					238	CO3	Student will be able to Explain the Instruction level parallelism	1																	2	
					239	CO4	Student will be able to Analyze the Multiprocessor Architecture	2									2								2	
56	13 CS 344	Parallel Computing	3-0-0	3	240	CO1	Understand the performance improvements of uni-processor systems through pipelining, classify different parallel processing systems.	1													2	New course introduced	Helps towards employability for expertized knowledge in Multi core, Grid and Cloud Technologies			
					241	CO2	Differentiate shared memory and distributed memory systems, design parallel programs through shared memory programming API 's	2																2		
					242	CO3	Apply the MPI features to solve the Distributed memory programming problems								2											2
					243	CO4	Analyze the parallel programming concepts on PRAM computing model.							2												2
57	11 CS 439	Cloud Computing	3-0-0	3	244	CO1	Understand Enterprise cloud computing paradigm.	1														New course introduced	Helps towards employability for expertized knowledge in Multi core, Grid and Cloud Technologies			
					245	CO2	Understand PaaS cloud Computing Environments.									1										2
					246	CO3	Analyze the performance of High performance computer on clouds.																		2	
					247	CO4	Evaluate the data security issues in clouds.																	3		
					248	CO1	Understand and analyze the parallel programming concepts complex systems	2															2			

Dr. K. Kishina M
 Alternate HOD
 Computer Science & Engg
 Koneru Lakshmaiah Education
 (Deemed to be) University
 Green Fields, Vadduramanna
 Guntur District, Andhra Pradesh

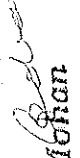
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								a	b	c	d	e	f	g	h	i	j	k			PSO 1	PSO 2											
58	13 CS 344	Grid Computing	3-0-0	3	249	CO2	Apply the concepts of parallel programming using CORBA												2			New course introduced	Helps towards employability for expertized knowledge in Multi core, Grid and Cloud Technologies										
					250	CO3	Understand and analyze the concepts of cluster computing and its deployment					2																2					
					251	CO4	Understand and integrate the resources and services in Metacomputing							2																	2		
					252	CO1	Apply parallel programming algorithms																									3	
59	13 CS 444	High Performance Computing	3-0-0	3	253	CO2	Understand and apply the analytical modelling of parallel programs																						3				
					254	CO3	Apply and analyze the GPU programming																								3		
					255	CO4	Apply parallel programming to heterogeneous computing																									3	
					256	CO1	Students are able to understand two-dimensional Computer Graphics																									3	
60	13 CS 346	2D/3D Graphics	3-0-0	3	257	CO2	Students are able to solve mathematical methods for three dimensional computer graphics																							3			
					258	CO3	Students are able to compare and contrast realistic rendering																									3	
					259	CO4	Students are able to explain geometric modeling																										3
					260	CO1	Describe the uses of Digital Image Processing and its Applications, Image Acquisition and Image Enhancement																										3
61	13 CS 347	Digital Image Processing	3-0-0	3	261	CO2	Analyze image enhancement algorithms such as histogram modification, contrast manipulation, edge detection and restoration		1																				3				


 (Deputy) Professor
 Alternate HOD

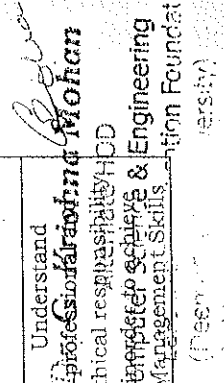
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								a	b	c	d	e	f	g	h	i	j	k								
								PSO 1		PSO 2		PSO 3														
62	13 CS 348	Animation	3-0-0	3	262	CO3	Inspect how Wavelet, Multi-resolution, Compression and Morphological Image Processing are realized	1	1										New course introduced	Graphics and Visualization						
							263	CO4	Illustrate Image Segmentation, Representation and Description and Object Recognition process	2	2															
							264	CO1	Understand the basics and technical background of animation.	1																
							265	CO2	Analyze the techniques used for Motion capturing and types of Animations	2	2															
63	13 CS 441	Video and Audio Streaming	3-0-0	3	266	CO3	Understand the concepts of fluids and image modeling												New course introduced	Helps towards employability for expertized knowledge Graphics and Visualization						
							267	CO4	Understand the various types of animation.	1	1															
							268	CO1	Understand the video formats and usage of video compression techniques.	2																
							269	CO2	Analyze the audio compression techniques and introduction to streaming media																	
64	13 CS 442	Multimedia Technologies	3-0-0	3	270	CO3	Understand and Analyze the concepts of audio and video encoding and preprocessing												New course introduced	Helps towards employability for expertized knowledge Graphics and Visualization						
							271	CO4	Apply stream serving and live web casting techniques for various files	2																
							272	CO1	Understand the framework and standards for multimedia communication	1																
							273	CO2	Analyze the application layer services for multimedia technologies																	
64	13 CS 442	Multimedia Technologies	3-0-0	3	274	CO3	Understand the middleware layer streaming for media coding												New course introduced	Helps towards employability for expertized knowledge Graphics and Visualization						
							274	CO3	Understand the middleware layer streaming for media coding	1	2															


D. Graphics and Visualization
 Alternate HOD

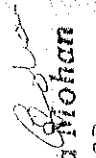
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								a	b	c	d	e	f	g	h	i	j	k			1	2								
67	13 CS 351	Natural Language Processing	3-0-0	3	285	CO2	Analyze Word Sense Disambiguation, HMM and CFG	2								2							New Course is Added	Helps towards employability for expertized knowledge in Artificial Intelligence and Neuralnetworks and fuzzy Logic						
						CO3	Illustrate Text and Sentence Alignment, Clustering in detail.	2												2										
						CO4	Explain Information Retrieval and Text Categorization, Perceptron in detail.	2												2										
						CO1	Students will be able to compare and contrast different types of Agents	2												2										
58	13 CS 443	Multi Agent Systems	3-0-0	3	289	CO2	Students will be able to illustrate how agents interact with each other to perform tasks delegated to them.	2															new course introduced	Helps towards employability for expertized knowledge in Artificial Intelligence and Neuralnetworks and fuzzy Logic						
						CO3	Students will be able to choose different methodologies for designing and developing an Agent	3												3										
						CO4	Students will be able to explain the various applications of Agents	2													2									
						CO1	Understand Image representation and modeling	1																						
59	13 CS 444	Computer Vision	3-0-0	3	292	CO1	Understand Image representation and modeling	1															New course introduced	Helps towards employability for expertized knowledge in Artificial Intelligence and Neuralnetworks and fuzzy Logic						
						CO2	Apply Image transformation methods														2									
						CO3	Interpret image processing algorithms	1																						
						CO4	Understand face detection and recognition algorithms																		1					
					296	CO1	Understand the fundamentals of database management systems including data models, database architectures, and database manipulations and be able to model ER-diagrams.																2							


Dr. G. Krishna Mohan
 Alternate HOD
 Computer Science & Engineering
 Foundation

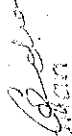
Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale				
								a	b	c	d	e	f	g	h	i	j	k			PSO 1	PSO 2		
70	13 OE 429	Fundamentals of Information Technology	3-0-0	3	297	CO2	Understand the theories and techniques in developing database applications and be able to write queries, functions and procedures with help of SQL															modified from previous syllabus	concepts of data engineering is taught for employability	
					298	CO3	Understand the different normal forms and transaction issues and be familiar with managing database systems, new developments and trends in databases.																	
					299	CO1	Understand the architectural design of a computer and various basic concepts of operating systems and programming fundamentals																	
71	12 OE 445	Fundamentals of DBMS	3-0-0	3	300	CO2	Analyze various software development methodologies and gain capability to design databases.																	
					301	CO3	Designing various model diagrams using Unified modelling language and understand basic commands that come across in querying a database.																	
					302	Co1	Understanding Values, Behavior and Attitudes																	
72	13 OE 430	SELF DEVELOPMENT	3-0-0	3	303	CO2	Understand and observe Observation, Introspection, Contemplation, Meditation and Concentration, Schools of Meditation																	
					304	CO3	Understand Stress Management, Tips for Self-Management																	
73	ME	Management Elective	3-0-0	3	305	CO	To enhance the Management Skills and to learn Professional Ethics															Retained from previous curriculum	Understand Professional Responsibility ethical responsibility Commitment to achieve & Engineering Management Skills	


 Prof. Dr. Mohan
 Head, Department of Mechanical Engineering
 Anna University


Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale				
								a	b	c	d	e	f	g	h	i	j	k			PSO			
								1	2	1	2	1	2	1	2	1	2	1				2		
74	13-AC-201	Energy & Society	Audit course	nil	306	CO 1	To Understand various aspects of Energy and its Technology				2								1	Retained from previous curriculum	Explore skills on the societal			
					307	CO 2	To acquire Knowledge on the energy audits and enhance for energy estimation					2								2				
75	13-AC-202	Employability Skills	Audit course	nil	308	CO 1	Analyze one's own strength as a speaker/ Communicator and use discretion while listening.					2							1	Introduced new course	Enhances Skills in communication which return helps in achieving Employability			
					309	CO 2	Apply and analyze various concepts of writing strategies in professional communication skills like, reports, resume and minutes of the meeting.					3												
76	13-AC-301	Advanced Employability Skills	Audit course	nil	310	CO 1	Understand the organization of the passage and also analyze the tone, attitude and style of the author.					2							1	Introduced new course	Enhances Skills to compete in competitive exams			
					311	CO 2	Acquire knowledge of and apply people skills in various social organizational and corporate ambiances.					2							2	Retained from previous curriculum	Enhances Practical exposure towards solving complex engineering problems in order to achieve employability			
77	13-TP-401	Term Paper	0-0-4	2		CO	To enhance Practical exposure towards solving complex engineering problems in order to achieve Research Exposure																	
78	13-MP401	Minor project	0-0-6	3		CO	To enhance Practical exposure towards solving complex engineering problems in order to achieve Research and Industrial Exposure																	
					313	CO1	Advances in Computing deals with the theoretical foundations of information and computation and their implementation and application in computer systems					2												
					314	CO1	It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth																	
79	15CSS12	Computational	3-0-2	4		CO2																		


Dr. Krishna Mohan
 Assistant Professor
 HOD
 Computer Science & Engineering
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 (Approved to be University)
 Lakshmi Narayan Education Founda
 Gandhinagar, Bangalore
 Bangalore District, Andhra Pradesh


Sno	Course Code	Course Title	L.T.P	Credits	S.NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale							
								a	b	c	d	e	f	g	h	i	j	k									
								1	2																		
80	15CS513	Machine Intelligence	3-0-2	4	316	CO3	That continue to be of significant, lasting value in this rapidly expanding field.																				
						CO4	Software Environments for Distributed systems and clouds: Parallel and Distributed Programming Models																				
						CO1	Explain the differences among the styles of learning supervised, reinforcement, unsupervised, inductive and deductive																				
						CO2	Comprehend probabilistic methods for learning																				
CO3	Understand Multivariate regression and Classification																										
CO4	Understand rule based knowledge and Analyze clustering																										
81	15CS514	Optimization Techniques	3-0-2	4	322	CO1	Evaluate mathematical expressions by using different types of operations on numbers.																				
						CO2	Simplify expressions and solve equations & inequations.																				
						CO3	Apply different types of arithmetic expressions to solve given problems.																				
CO4	Apply methods to find areas, volumes and use graphs to reduce non-linear to linear forms.																										
82	15CS515	Device Management	3-0-2	4	326	CO1	Understand the functionality and design the CPU functional units - control unit, registers, the arithmetic and logic unit, the instruction execution unit, and the interconnections among these components.																				
						CO2	Understand, analyze and design main, cache and virtual memory organizations.																				
CO3	Understand, analyze and design different types of I/O transfer techniques																										


 Dr. G. Krishna Murthy
 Associate HOD
 Computer Science & Engineering
 Anna University, Education Foundation
 Chennai, Tamil Nadu, India.

Sno	Course Code	Course Title	L-T-P	Credits	CO NO	Description of the Course Outcome	Program Outcomes (POs)										Type	Rationale					
							a	b	c	d	e	f	g	h	i	j			k	PSO			
																				1	2		
83	15CS516	Formal Methods	3-0-2	4	CO4	Understand the design issues of RISC and CISC CPUs and the design issues of pipeline architectures											2						
					CO1	Analyzing the design issues involved in various constructs of programming languages, Design top-down and bottom-up parsers		2												2			
					CO2	Develop syntax directed translation schemes, Design and implement LR parser			2													2	Useful for the skill development, good to design new languages
					CO3	Use formal grammars to specify the syntax of Languages				2													2
84	130E456	Algorithm Design and Analysis	3-0-2	4	CO4	Analyzing the methods and tools to define syntax and semantics of a languages											2						
					CO1	Examine the space and time complexities of basic algorithms													2				
					CO2	Demonstrate Greedy and Dynamic programming methodology for solving optimization problems	1														2		
					CO3	Apply back tracking and branch and bound methodology for searching same state space trees					2												2
84	130E456	Principles	3-0-2	4	CO4	Identify the purpose of NP-hard, NP-complete hard graph problems and illustrate PRAM algorithms	1													2			
					CO1	Understand the basic concepts of operating system, OS structure and process concepts.	1															2	Basic management of
					CO2	Apply the concepts Process Scheduling algorithms and Process Synchronization Problems.	2															2	
					PSO																		


 Dr. G. Krishna Mohan
 Alternate HOD
 Computer Science & Engineering
 Lakshmaiah Education Foundation
 (Deemed to be University)
 VADDESWARA

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale									
								a	b	c	d	e	f	g	h	i	j	k											
								PSO																					
85	130E455	of Operating Systems	3-0-2	4		CO3	Solve the concept of the Deadlock, Memory Management and Virtual Memory Concepts.					2									Course is Added	computer system taught for skill development							
						CO4	Demonstrate file system interface, structure, file allocation methods, free space management and threads.																						
						CO1	Understand the overall compiler architecture and design of Lexical Analyzer																						
						CO2	Construct the parser using the Yacc tool																						
86	130E457	Theory of Computers	3-0-2	4		CO3	Analyze Syntax directed definition and its translations schemes, intermediate code																						
						CO4	Apply the code optimization and generation techniques in the development of a compiler.																						
						CO1	Understand Algorithms and sorting networks																						
						CO2	Ability to design and analyze parallel algorithms																						
87	130E458	Parallel Processing	3-0-2	4		CO3	Apply graph and search algorithms on sorting networks																						
						CO4	Understand arithmetic and randomized computations																						
						CO1	Acquire the ability to identify potential sources of data and distinguish between quantitative and qualitative data																						
						CO2	Learn to identify and describe a variety of analysis tools that will assist in processing data.																						
88	130E459	Data Analytics	3-0-2	4		CO3	Demonstrate basic data analysis techniques and show how this analysis can contribute to a business' future growth																						
						CO1	Acquire the ability to identify potential sources of data and distinguish between quantitative and qualitative data																						


 Dr. G. Krishna Mohan
 Alternate HOD
 Computer Science & Engineering

Sno	Course Code	Course Title	I.T.P	Credits	SNO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale						
								a	b	c	d	e	f	g	h	i	j	k			1	2				
						CO4	Learn how to effectively communicate the results of your analysis.		2																	
89	13PW401	Final year Project	0-0-18	9	353	CO	To enhance Practical exposure towards solving complex engineering problems in order to achieve Research and Industry Exposure									2								Retained from previous curriculum	Enhances Practical exposure towards solving complex engineering problems in order to achieve employability	
90	13PS401	Practice School	0-0-18	9	354	CO	To enhance Practical exposure towards solving complex engineering problems in order to achieve Industrial Exposure																		Retained from previous curriculum	Enhances Practical exposure towards solving complex engineering problems in order to achieve employability
					355											2	3							2		

[Signature]
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K L University

(Koneru Lakshmaiah Education Foundation)
Deemed to be University, Estd. w/s 3 of UGC Act, 1956

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Campus: Greenfields, Vaddeswaram -522502, Guntur District, Andhra Pradesh, INDIA.

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Department of Computer Science and Engineering

Alumni Feedback on Curriculum

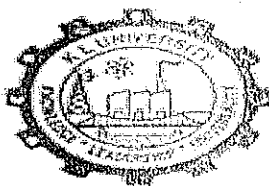
Academic Year (2013-14) Sem I

1. To increase (Inter Discipline) open electives from two to three to gain more fundamental Knowledge in other department (or) general areas.
2. To recommend Term Paper as minor project and finally as major project to come up with publications to enhance more on Research and Publications.
3. To make Artificial Intelligence course as the core course.
4. To Introduce JAVA concepts in object oriented programming.


HOD-CSE

PROFESSOR

Department of Computer Science and Engineering
K L UNIVERSITY
Vaddeswaram, Guntur District



K. L. University

U/S 2 of UGC Act, 1956
Koneru Lakshmaiah Education Foundation

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
MINUTES OF DEPARTMENT ACADEMIC COMMITTEE MEETING

The Department Academic Committee Meeting was conducted in C408, Computer Science and Engineering, on 11th November 2013 at 1.00 PM.

The following Agenda Items are discussed and the resolutions passed are marked against them.

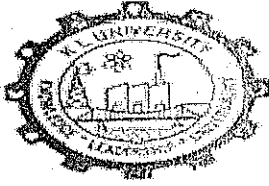
Agenda:

- To discuss feedback obtained from various stake holders.
- To discuss the syllabus and course structure of B.tech 2013 batch (Annexure-I).
- To discuss and formulate the guidelines for project based labs.

The following members were present:

1. Dr. V.Srikanth
2. Dr. V. CHANDRA PRAKASH.
3. Dr. T. V. Rao.
4. Prof. S. VENKATESWARLU.
5. Dr. K. SUBRAHMANYAM.
6. Dr. M. R. NARASING RAO.
7. Dr. D. RAJESWARA RAO.
8. Dr. M.S.R PRASAD.
9. Dr. K. V. V. SATYANARAYANA
10. Dr. V. RAMA KRISHNA
11. Dr. K. RAJA SEKHAR.
12. Mr. M. VISHNUVARDHAN.
13. Mr. K. V. D. KIRAN.
14. Naga Sabarinath (10100416)
15. V. Alakananda (10100242)
16. Himaja (10100325)

PROFESSOR
Computer Science and Engineering
K. L. UNIVERSITY
Vengal Rao Nagar, Guntur District



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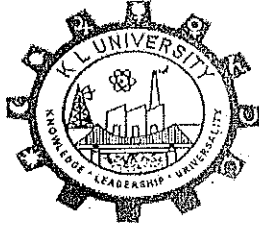
The following points were discussed and resolved:

- Up on discussing the feedback from DAC members, it is resolved to change the course OOP through C++ to JAVA in order incorporate core JAVA skills for student.
- Up on discussion regarding project based labs, In order to enhance practical knowledge in core courses, three Mini projects are removed from Y12 Batch and resolved to include Capstone Design Project to every core course(15 courses).

All programs for 2013-14 has been framed to be in relevance to APIIC, Human Resource Development Policy, Govt. of India, National Skill Development Corporation, Govt. of India, Confederation of Indian Industries, ABET, NBA norms, O*NET and AICTE statutory norms. Thus, framed curriculum has been developed through framing of Program Educational Objectives (PEO's) which are mapped to the university Vision and Mission, which are there by disseminated into Student Outcomes (SO's) which thereby have been developed into relevant Course Outcomes (CO's).

The resolutions are forwarded to BOS committee, for the approval.

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Computer Science and Engineering
K. L. UNIVERSITY
VADDESWARAM-522 502, Guntur District



KL University

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Green Fields, Vaddeswaram, (via) K.C. Works P.O. - 522 502, Guntur District, A.P.

Phones: 08645-246948, 246615 ' FAX: 08645-247249, 0866-2577902

Constituent College KLCE Accredited by NAAC with CGPA 3.76/4.00

Approved by A.I.C.T.E ± Accredited by N.B.A.± ISO 9001-2000 Certified

CONSOLIDATED REPORT ON FEEDBACK GIVEN BY ACADEMIC PEERS

2013-14

Sno	Date	Feedback	Resource person name
1	25 Apr 2014	Introduce new M.Tech. program on cloud computing.	A.S.N.Chakravarthy Professor, Dept. of CSE, JNTUK.
2	25 Apr 2014	Suggestions on new M.Tech. CSE curriculum and approved M.Tech(CSE) structure.	P.S.Avadhani, Prof. & Vice principal, AU.

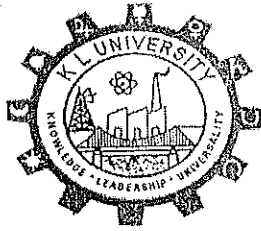
Dr. V. SRIKANTH

Head of the Department

Computer Science and Engineering

KL UNIVERSITY

VADDESWAREM-522 502, Guntur Dt.



KL University

(Koneru Lakshmaiah Education Foundation)

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CONSOLIDATED REPORT ON FEEDBACK GIVEN BY ACADEMIC PEERS

2013-14

	Excellent	Very Good	Good	Average	Total
Feed back(in %)	0	25	75	0	100

Dr. V. SRIKANTH
Head of the Department
Computer Science and Engineering
KL UNIVERSITY
VADDESWARAM-522 502, Guntur D.

KL UNIVERSITY

DEPARTMENT OF CSE

Industry personnel feedback on the curriculum

SUMMARY REPORT - A.Y. 2013-14

S No	Date	Feedback	Industry person	Industry
1	14-06-2013	Informed the importance of Computer vision in IT industry and suggested to start a course in that	Mr. S. Siva Prasad	FactSet
2	03-07-2013	Give emphasis for Animation technologies like Maya	Mr. Ankit	CTS
3	20-12-2013	Informed the importance of Fundamentals of Information technology to all the Engineering students, He strongly recommended to start a course to non IT students for which the syllabi and material will be provided by Infosys	Mr. Pramod	Infosys
4	04-04-2014	Introduce video and audio streaming in game and graphics programming. It can be introduced as a separate course	Mr. P Ram	Wipro
5	25-04-2014	Described the cloud computing emphasis and recommended to start a new stream in M.Tech	Mr. A. Srinivasa Rao	Tech Mahindra


HOD-CSE

2013



K L University

(Koneru Lakshmaiah Education Foundation)

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CONSOLIDATED REPORT ON FEEDBACK GIVEN BY PARENTS

2013-14

SNQ	Date	Feedback	Parent Name
1	2.11.2013	Counselling the students regularly is good	Mrs.M.Bhanu Rekha
2	2.11.2013	In Laboratory more no of faulty is available to clear the doubts my ward is happy	Mr.K.Soma Sekhara varma
3	2.11.2013	Discipline is good	Mr.V.V.Koteshwra Rao
4	2.11.2013	Existing Standards of Curriculam is Good	Mrs.B.Vijaya
5	4.07.2014	My ward is feeling difficult of data structures to get pass marks. Requesting to reduce the burden of course	Mr.O.Kanaka Durga
6	5.11.2014	Please introduce java course instead of oops through C++	Mrs.M.Lavanya
7	4.07.2014	Library is Good	Mr.N.Rambabu
8	5.11.2014	Please see that the student get enough support from faculty when they are practicing in the class also	Mr.M.Subba Rao

HOD-CSE

Dr. V. Srinivas

Head of the Department

Computer Science and Engineering

KL UNIVERSITY

VADDESWARAM-522 502, Guntur Dt.



K L University

(Koneru Lakshmaiah Education Foundation)

Deemed to be University, Estd. u/s 3 of UGC Act, 1956

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Campus: Gichenahalli, Vaddoswaram - 522502, Guntur District, Andhra Pradesh, INDIA.

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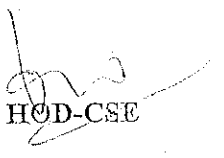
Admin Off: 29-30-35, Musunuru Road, Governorpet, Vijayawada - 520 002, Ph: +91-866-2577715, Fax: +91-866-2577717.

Department of Computer Science and Engineering

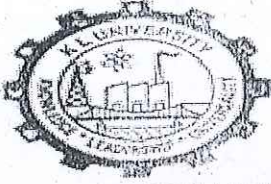
Alumni Feedback on Curriculum

Academic Year (2013-14) Sem 2

1. Give more emphasis on coding and practice which will give band during placements.
2. New stream can be included in M.Tech stream explicitly covering Cloud computing domain.


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Koneru Lakshmaiah Education Foundation

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MINUTES OF DEPARTMENT ACADEMIC COMMITTEE MEETING

The Department Academic Committee Meeting was conducted in C409, Computer Science and Engineering, on 9th June 2013 at 11.00 AM.

The following Agenda Items are discussed and the resolutions passed are marked against them.

Agenda:


- To discuss feedback obtained from various stake holders.
- To discuss the syllabus and course structure of B.Tech 2013 batch (Annexure-I).

The following members were present:

1. Dr. V.Srikanth
2. Dr. V. CHANDRA PRAKASH.
3. Dr. T. V. Rao.
4. Prof. S. VENKATESWARLU.
5. Dr. K. SUBRAHMANYAM.
6. Dr. M. R. NARASING RAO.
7. Dr. D. RAJESWARA RAO.
8. Dr. M.S.R PRASAD.
9. Dr. K. V. V. SATYANARAYANA
10. Dr. V. RAMA KRISHNA
11. Dr. K. RAJA SEKHAR.
12. Mr. M. VISUNUWARDHAN.
13. Mr. K. V. DIKIRAN.
14. A. Naga Sabarinath (10100416)
15. V. Alakananda (10100242)
16. Himaja (10100325)

The following points were discussed and resolved:

- Upon discussing the feedback from DAC members, resolved to introduce two to three open electives in order to gain more fundamental Knowledge in other department (or) general areas.


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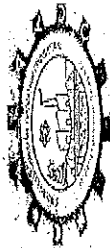
- PO's and PEO's are introduced in Y13 Batch according to Washington Accord or ABET. LTC/Active learning was introduced as per Outcome based education.
- Discussed to change the course name Mathematical methods to Mathematical Methods for Computation in order to standardize the title.
- Engineering Mathematics and Advanced Engineering Mathematics are renamed as Linear algebra and Multivariate Calculus, Differential Equations Respectively, as the course name should be specific.
- Upon discussing the feedback from DAC members, it is resolved to introduce Thermodynamics and Network Theory in Engineering Sciences (AICTE model Curriculum Recommendation).
- As per ACM Computer Engineering model curriculum 2004, it is recommended to include Signal Processing in Engineering Sciences.
- According to ACM knowledge area, it is suggested to change the name of Cryptography and Network Security as Information Assurance security.
- Upon discussion, it is resolved to introduced new course Simulation and Modelling as per the guidelines of ACM Curriculum.
- Upon discussing the feedback from DAC members, in order to enhance Research and Publications, it is resolved to continue the Term Paper as minor project and finally as major project to come up with publications.
- In order to implement LTC effectively, it is suggested to allot three faculty for each core course.
- In order to emphasize more on machine Learning and upcoming Technologies, it is resolved to change Artificial Intelligence from elective to core course.
- It is suggested to add the Graph theory concepts to the Data Structures Course.

All programs for 2013-14 has been framed to be in relevance to APIIC, Human Resource Development Policy, Govt. of India, National Skill Development Corporation, Govt. of India, Confederation of Indian Industries, ABET, NBA norms, O*NET and AICTE statutory norms. Thus, framed curriculum has been developed through framing of Program Educational Objectives (PEO's) which are mapped to the university Vision and Mission, which are there by disseminated into Student Outcomes (SO's) which thereby have been developed into relevant Course Outcomes (CO's).

The resolutions are forwarded to BOS committee, for the approval.

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KONERU LAKSHMAIAH EDUCATION FOUNDATION
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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

R13 Annexure (B.Tech)-I

Sno	Course Code	Course Title	L-T-P	Credits	S.NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale													
								a	b	c	d	e	f	g	h	i	j	k			PSO 1	PSO 2											
1	13-HS-101	English	2-0-2	3	1	CO 1	Understand the concept of Group Discussion and listen and speak effectively during the discussion.																		Modified from the previous syllabus	This course helps to gain knowledge on professional communication skills							
2	13-HS-102	Language and Reasoning Skills	2-0-2	3	2	CO 2	Understand and improve learners' competency in competitive English and apply the principles of grammar in real life contexts.																		New Course is Added	This course helps to gain knowledge on professional communication skills							
3	11-BS-105	Ecology & Environment	2-0-0	2	3	CO 3	Understand skimming & scanning, and apply the types of reasoning in comprehending the information.																		Modified from the previous syllabus	This course helps to gain knowledge on professional communication skills							
3	11-BS-105	Ecology & Environment	2-0-0	2	4	CO 4	Understand the mechanics and application of presentation skills																		Modified from the previous syllabus	This course helps to gain knowledge on professional communication skills							
3	11-BS-105	Ecology & Environment	2-0-0	2	5	CO 1	Understand the method of identifying synonyms and antonyms and analyze the meaning of a word from the context.																		Modified from the previous syllabus	This course helps to gain knowledge on professional communication skills							
3	11-BS-105	Ecology & Environment	2-0-0	2	6	CO 2	Analyze issues and arguments in the process of critical reasoning and apply grammar rules to correct sentences.																		Modified from the previous syllabus	This course helps to gain knowledge on professional communication skills							
3	11-BS-105	Ecology & Environment	2-0-0	2	7	CO 3	Apply the Concepts of basic Algebra and their importance while solving the problems																		Modified from the previous syllabus	This course helps to gain knowledge on professional communication skills							
3	11-BS-105	Ecology & Environment	2-0-0	2	8	CO 4	Apply the short-cut methods on the concepts of different models in Calendars, Clocks, Blood relations and various types of arrangements.																		Modified from the previous syllabus	This course helps to gain knowledge on professional communication skills							
3	11-BS-105	Ecology & Environment	2-0-0	2	9	CO 1	Understand the importance of Environmental education and conservation of natural resources.																		Modified from the previous syllabus	This course helps to gain knowledge on professional communication skills							
3	11-BS-105	Ecology & Environment	2-0-0	2	10	CO 2	Understand the importance of ecosystems and biodiversity.																		Modified from the previous syllabus	This course helps to gain knowledge on professional communication skills							

Dr. G. Krishna Mohan

Head of Department

Computer Science & Engineering
Koneru Lakshmaiah Education Foundation

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO.NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale												
								a	b	c	d	e	f	g	h	i	j	k			PSO 1	PSO 2										
4	13-JS-104	Human Values	2-0-0	2	11	CO-3	Apply the environmental science knowledge on solid waste management, disaster management and EIA process.															1		This course helps to interact with other human resources humanly								
					12	CO-1	Understand and identify the basic aspiration of human beings																									
					13	CO-2	Envisage the roadmap to fulfill the basic aspiration of human beings.																									
					14	CO-3	Analyze the profession and his role in this existence.																									
5	13-BS-101	Linear Algebra and multivariate calculus	3-0-2	4	15	CO-1	Determine extreme values for functions of several variables																				This course helps to use mathematics for computer science applications					
					16	CO-2	Determine area, volume moment of inertia through multiple integrals in Cartesian or polar co ordinates.																									
					17	CO-3	Apply the concepts of vector calculus to calculate the gradient, directional derivative, arc length, areas of surfaces and volume of solids in practical problems																									
					18	CO-4	Obtain analytical and numerical solutions of Heat and wave equations																									
6	13-BS-102	Differential Equations	3-1-0	4	19	CO-1	Formulate physical laws and relations mathematically in the form of first order differential equations and identify a method for solving and interpreting the results.																					This course helps to use mathematics for computer science applications				
					20	CO-2	Formulate physical laws and relations mathematically in the form of second/higher order differential equations and identify a method for solving and interpreting the results.																									
					21	CO-3	Provide solutions for Fourier series of periodic/non-periodic phenomenon in models involving differential equations.																									
					22	CO-4	Apply numeric solution methods for a system of linear algebraic equations and application oriented matrix eigenvalue problems.																									

Dr. G. Krishna Murthy
Alternate HOD

Computer Science & Engineering
B. J. Somaiya Institute of Technology and Sciences
Green Field, Vashi, Mumbai - 400 703

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO-NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale									
								PSO																					
								a	b	c	d	e	f	g	h	i	j	k											
7	13-BS-103	Engineering Physics	3-0-2	4	23	CO-5	Verify the solution of problems through MATLAB.																	Modified from the previous syllabus	This course helps to use principles of physics in computer science applications				
					24	CO 1	Understands structure of crystalline solids, kinds of crystal imperfections and appreciates structure-property relationship in crystals.																						
					25	CO 2	Understands magnetic properties of materials and identifies their role in classification soft & hard magnetic materials having specific engineering applications.																						
					26	CO 3	Understands thermal and mechanical properties of materials, heat treatment methods for changing the microstructure of materials and responses of materials subjected to load.																						
					27	CO 4	Understands the role of electronic energy band structures of solids in governing various electrical and optical properties of materials.																						
					28	CO 1	Describe some important design considerations in choosing a battery for a specific application.																						
					29	CO 2	Predict potential complications from combining various chemicals or metals in an engineering setting																						
8	11-BS-104	Engineering Chemistry	3-0-2	4	30	CO 3	Examine water quality and select appropriate purification technique for intended problem																	Modified from the previous syllabus	This course helps to use principles of physics in computer science applications				
					31	CO 4	Explain the role of chemical kinetics in the formation and destruction of ozone in the atmosphere and predict the connection between molecular behavior and observable physical properties.																						
					32	CO-5	An ability to analyze & generate experimental skills.																						
					33	CO 1	Apply the concept of sets, relations, functions, discrete structures, Sum rule and product rule.																						

Dr. G. Krishna Mohan
Asst. Prof. HOD

Computer Science & Engineering
K J SOMAIYA FOUNDATION
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K. J. Somaiya Institute of Technology & Engineering

Sno	Course Code	Course Title	L-T-P	Credits	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale									
							a	b	c	d	e	f	g	h	i	j	k											
							PSO																					
9	13-BS-206	Discrete Mathematics	3-0-0	3	CO 2	Apply Count discrete event occurrences; Apply Propositional logic and First order logic to solve Problems																Modified from the previous syllabus	This course helps to use mathematics for computer science applications					
					CO 3	Apply Advanced Counting Techniques, Formulate and solve recurrence relations; Apply Lattice theory																						
					CO 4	Apply the concepts of graphs and trees																						
					CO 1	Understand the concepts of crystallography and crystalline imperfections in order to determine crystal structures and to identify defects in crystals																						
10	13-ES-103	Engineering Materials	3-0-0	3	CO 2	Understand electrical and optical properties of materials and apply them to know various mechanisms involved in electrical, electronic, optical, optoelectronic devices.																	Modified from the previous syllabus	This course helps to use principles of materials in computer science applications				
					CO 3	Understand mechanical and thermal properties of materials and apprehend their importance in identification of materials for specific-engineering applications																						
					CO 4	Understand magnetic properties of materials and apply them to know various mechanisms involved in magnetic memory devices and transformers.																						
					CO 5	Understand various properties of materials and apply the knowledge to execute the related experiments to get hands on experience and also to develop some inter disciplinary projects.																						
					CO-1	Understand and apply the fundamentals of a measurement system, characteristics, and metrology using simulation and experimentation tools.																						

Dr. G. Krishna Mohan
Asst. Prof

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Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale							
								a	b	c	d	e	f	g	h	i	j	k									
								PSO		PSO		PSO		PSO		PSO		PSO									
11	13-ES-102	Measurements	3-0-2	4		CO-2	Understand various electrical & computer parameters, and apply different measuring techniques on various electrical parameters using simulation and experimentation tools.															Modified from the previous syllabus	This course helps in understanding basics of electrical engineering				
					43	CO-3	Understand electronic & electro-physiological parameters, and apply measuring techniques on electronic parameters using simulation and experimentation tools.	2	2																		
					44	CO-4	Understand and apply different measuring techniques on civil and mechanical parameters using simulation and experimentation tools.	2	2																		
					45	CO-5	Apply the theoretical concepts to measure different parameters	2																			
					46		Draft orthographic Projections, Isometric views, projection of planes, Manually and prepare Models in workshop by using drawings.	2	2																		
12	11-ES-104	Engineering Graphics with CAD	0-0-4	2	47	CO 1	Draft orthographic Projections, Isometric views, projection of planes, Manually and prepare Models in workshop by using drawings.																Modified from the previous syllabus	This course helps use of engineering graphics in computer graphics skill development			
					48	CO 2	Draft orthographic projections, isometric views, projection of planes using Autocad. Draft projection of solids Manually and by using AutoCAD and prepare Models in workshop by using different workshop trades	2	2																		
					49	CO 3	Draft Development of surfaces of solid and sections of solid Manually																				
					50	CO 4	Practicing house wiring through Auto Cad																				
					51	5	Develop 2D & 3D components using Auto Cad Software	2	2																		
13	13-ES-105	Workshop Practice	0-0-4	2	52	CO 1	Hands on practice on wood working operation using hand tools																Modified from the previous syllabus	helps in knowing fundamentals of work shop practice			
					53	CO 2	Hands on practice on sheet metal working.																				
					54	CO 3	Hands on practice on moulding by preparing a sand mould																				
					55	CO 4	Hands on practice on Soldering by mounting electronic components																				

Computer Engineering
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 Green Fields, Vengal Rao Nagar, Hyderabad - 500090

Sno	Course Code	Course Title	L.T.P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale									
								a	b	c	d	e	f	g	h	i	j	k											
								PSO													1	2							
16	13-ES-201	Thermodynamics	3-0-0	3	67	CO-3	Analyze various air standard cycles and their performance.	2														Course is Added NEW	helps in understand thermodynamics and logic building						
						CO-4	Evaluate the performance of fuels and combustion to various engines.	1																			1		
						CO-5	Apply the theoretical concepts to conduct various experiments of thermodynamics practically and analyze the data.	2																				2	
17	13-ES-203	Network Theory	3-0-2	4	70	CO-1	Understanding network theory	2														New Course is Added	helps in understand network theory and logic building						
					71	CO-2	Apply concepts of electrical networks	2																		2			
					72	CO-3	Analyse concepts of electrical networks	2																			2		
					73	CO-4	Analyse concepts of electrical networks topologies	2																				2	
18	13-ES-205	Signal Processing	3-0-2	4	74	CO-1	Demonstrate signals and their Spectra	2	2														New Course is Added	helps in understand signal analysis and logic building					
					75	CO-2	Analyze discrete time systems	2	2																		2		
					76	CO-3	Design filters to cater signal analysis needs																					2	
					77	CO-4	Analyze non stationary signals in time																						2
					78	CO-5	Analyze non stationary signals in frequency domains																						2
19	13-ES-202	Object Oriented Programming	3-0-2	4	79	CO-1	The student will be able to understand Basic Concepts of OOP, apply the concepts of classes and objects through Java Language.	2															New Course is Added	Learning and Programming Language and helps in Skill Development					
					80	CO-2	The student will be able to apply the concepts of constructors, Overloading, parameter passing, access control, Inheritance.	2																				3	
					81	CO-3	The student will be able to apply Packages, Interfaces, Exception Handling.	2																					3
					82	CO-4	The student will be able to apply I/O Streams and understand Basic Concepts of Multi-Threading	2																					3

Dr. G. Krishna Mohan
 Alternate HOD
 Computer Science & Engineering
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 Green State (Deemed to be University)

Sno	Course Code	Course Title	L-T-P	Credits	SNO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale						
								a	b	c	d	e	f	g	h	i	j	k								
								1	2	3	4	5	6	7	8	9	10									
22	13 CS 203	Operating Systems	3-0-2	4	95	CO2	Apply the concepts Process Scheduling algorithms and Process Synchronization Problems.	2													New Course is Added	Basic management of computer system taught for skill development				
						CO3	Solve the concept of the Deadlock, Memory Management and Virtual Memory Concepts.	2																		
						CO4	Demonstrate file system interface, structure, file allocation methods, free space management and threads.	1																		
						CO5	Create and develop a project along with his/her team members.						3													
						CO1	Explain the advantages of DBMS, its Characteristics, Concepts and ER-Model.	1																		
23	13 CS 204	Data Base Management System	3-0-2	4	100	CO2	Demonstrate Relational Database using SQL detailing the role of Relational Algebra and Relational Calculus	2													Modified from the previous syllabus	coding and data retrieval used in application development is taught for employability and skill development				
						CO3	Illustrate the normal forms of Relational DBMS detailing the process of normalization.																			
						CO4	Examine Transaction Management, Concurrency Control, File Organizations, Indexing, and Storing data.						2													
						CO5	Create and Access Data Base for given Applications																			
						CO1	Understand OSI and TCP/IP Models and basics of physical layer and their issues	1																		
					104	CO2	Demonstrate Data Link layer issues and medium access control sub layers concepts																			
						CO1	Understand OSI and TCP/IP Models and basics of physical layer and their issues																			
					105	CO2	Demonstrate Data Link layer issues and medium access control sub layers concepts																			

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Alternate HOD

Computer Science & Engineering
Koneru Lakshmaiah Education Foundation
(Approved to be University)
Green Field, VADDEPALLE, GUNTUR DISTRICT, AP

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale							
								a	b	c	d	e	f	g	h	i	j	k			1	2					
24	13 CS 205	Computer Networks	3-0-2	4	106	CO3	Analyze and implement the algorithms of network and transport layers and concerned services														2	New Course is Added	Basic principles of networking is taught for skill development				
						CO4	Evaluate and execute the concepts of TCP, UDP and the application layer conceptions																			2	
						CO5	Demonstrate the basic concepts of protocols and their design including client/server models, connection oriented and connection-less models																				2
						CO1	Describe and illustrate the concepts of HTML tags, and CSS through an application, DHTML, JavaScript-functions	1																			3
						CO2	Describe Java fundamentals and inheritance property and polymorphism in java	1																			
25	11 EM 301	Internet Programming	3-0-2	4	111	CO3	Develop java programs using Encapsulation property and Exception handling																Retained from previous syllabus	All modern webbased development taught for Skill Development			
						CO4	Design java applications using multithreading, Applets, Design results processing application using JSP	1																		3	
						CO5	Demonstrate java programs in computer lab	1																			3
						CO1	illustrate different phases involved in the software development		2																		3
						CO2	explain the concepts of system modeling																				
26	13 cs 301	software engineering	3-0-2	4	116	CO3	design the architecture UI															New Course is Added	principles of software development taught for Skill Development				
					CO4	demonstrate the testing strategies	1																		3		
					CO1	Examine the space and time complexities of basic algorithms																				2	

Dr. G. Krishna Moh
 Alternate HOD
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 Konyeri Lakshmaiah Education Soc
 (Deemed to be U)

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale							
								a	b	c	d	e	f	g	h	i	j	k			PSO 1	PSO 2					
27	13 cs 302	Design and Analysis of Algorithms	3-0-2	4	119	CO2	Demonstrate Greedy and Dynamic programming methodology for solving optimization problems															New Course is Added	fine tuning and design of algorithms for the requirement for skill development				
					120	CO3	Apply back tracking and branch and bound methodology for searching same state space trees																				
					121	CO4	Identify the purpose of NP-hard, NP-complete hard graph problems and illustrate PRAM algorithms	1																			
					122	CO1	Understand various Number systems Codes and their conversion procedures and Complements of numbers used in Digital Systems	1																			
28	13CS201	Digital Logic Design & Computer Organization	3-0-2	4	123	CO2	Apply Boolean Identities for simplifying Boolean Expressions, Combinational and Sequential Circuits.																New Course is Added	Enhance the skills in study towards digital circuit design and its organization towards employability			
					124	CO3	Understand the functionality and design the CPU functional units - control unit, registers, the arithmetic and logic unit, the instruction execution unit, and the interconnections among these components.	1																			
					125	CO4	Understand, analyze and design main, cache and virtual memory organizations.																				
					126	CO5	Demonstrate the basic concepts of Digital logic in the Laboratory																				
29	13 cs 303	Information Assurance and Security			127	CO1	Illustrate and examine conventional cryptographic procedures																New Course is Added	Skill Development in learning various Security techniques and tools			
					128	CO2	Illustrate and examine modern cryptographic and hash algorithms	1																			
					129	CO3	demonstrate and study MAC and digital signature algorithms																				

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Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)										PSO	Type	Rationale						
								a	b	c	d	e	f	g	h	i	j				k					
31	13 CS 305	Distributed Computing	3-0-2	4	138	CO3	Utilize DSM model for inter process communication showing relationship between various types of shared objects and Identify clock synchronization problem applying tight bounds to synchronize clocks.	2															New Course is Added	distributed software over networking environment is taught forskill development		
							3																			
							3																			
31	13 CS 305	Distributed Computing	3-0-2	4	139	CO4	Examine the process of realizing reliable fault tolerance in distributed systemreflecting the specific type of faulty behavior and illustrate simulation that makes Byzantine failures appear to be crash failures	2																		
							3																			
31	13 CS 305	Distributed Computing	3-0-2	4	140	CO5	Experiment with laboratory programs and develop a small project along with his/her team members.	2																		
							3																			
31	13 CS 305	Distributed Computing	3-0-2	4	141	CO1	The Student will be able to define & represent finite Automata and its variations & construct Finite Automata for accepting different kinds of regular languages and their inter conversions	3	3	3	3															
							1																			
31	13 CS 305	Distributed Computing	3-0-2	4	142	CO2	The student will be able to define regular sets, its properties and its rationale with pumping lemma of Regular Sets & Construct Finite Automata from regular languages and vice-versa	3	3	3	3															
							1																			

Dr. G. Krishna Mohan

Alternate HOD

Computer Science & Engineering
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 Green Fields, VADDESWARAM-522 002
 Guntur District, Andhra Pradesh.

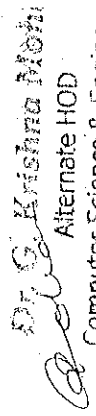
Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale												
								a	b	c	d	e	f	g	h	i	j	k														
								PSO																								
34	13 CS 402	simulation and modeling	3-0-2	4	153	CO3	Analyze Simulation of Input Modeling and Verification and Validation of the Models	2			2												new course introduced	Add knowledge towards stochastic models and helps in self development								
							CO4	Apply the Simulation on Manufacturing and Material Handling Systems, Computer System and Computer Networks.	2																							
								CO5	Develop the basic concepts of Simulation and Modeling	2					2																	
									CO1	Student should be able to Understand the necessity of data preprocessing in construction of data warehouse.	1																					
										CO2	Student should be able to Analyze multidimensional data using OLAP tools to facilitate effective data mining.	2	2							s												
35	13 CS 331	Data Warehousing and Mining	3-0-0	3	CO3	Student should be able to Apply the concepts of data analysis and clustering to postulate accurate classification model for a given problem.																										
						CO4	Student should be able to Recommend a methodology for forming complex data types and detection of anomaly for the given Application.																									
							CO1	Understand the fundamentals of query optimization and database recovery protocols.	1																							
								CO2	Analyze emerging database technologies and distributed databases.		2																					
36	13 CS 332	Advanced Database Management Systems	3-0-0	3	CO3	Discriminate object oriented and relational database systems.	2																									
						CO1	Understand the fundamentals of query optimization and database recovery protocols.	1																								
					CO2		Analyze emerging database technologies and distributed databases.		2																							
						CO3	Discriminate object oriented and relational database systems.																									

modern databases are taught for employability

Dr. G. Krishna Moha
Alternate HOD

Computer Science & Engineering
Roneeru Lakshmaiah Education Four
(Deemed to be University)
Green Fields VADNERU

Sno	Course Code	Course Title	L-T-P	Credits	SNO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale		
								a	b	c	d	e	f	g	h	i	j	k				
								1	2	3	4	5	6	7	8	9	10	11				
					163	CO4	Analyze multimedia databases.															
						CO1	Explain the big data that is emerging from multiple big data sources in terms of velocity, variety and veracity	1														
					164	CO2	Illustrate the technologies, processes and methods for analyzing big data															
					165	CO3	Demonstrate the key principles of data analysis using the R tool															
					166	CO4	Examine advanced Graphs, Regression, Forecasting and Time Series models using R analytical platform.															
					167	CO1	Understand the fundamentals of database security and security risks related to user administration	1														
					168	CO2	Apply password policies and security models															
					169	CO3	Analyze virtual private database using views in SQL Server 2000 and Oracle 10g and understand database auditing, auditing models	2														
					170	CO4	Apply auditing techniques on the real world problems using Oracle 10g and SQL server 2000	2														
					171	CO1	Summarize distributed databases	1														
					172	CO2	Analyze parallel database for searching, sorting, join and group by join.	2														
					173																	
37	11 CS 434	Big Data Analytics	3-0-0	3																		
38	13 CS 333	Database Security	3-0-0	3																		


 Dr. G. Krishna Mohi
 Alternate HOD
 Computer Science & Engineering
 K. J. Somaiya Institute of Education
 (Deemed to be University)
 Green Fields, VADODWARAJIM-5

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale								
								a	b	c	d	e	f	g	h	i	j	k			PO 1	PO 2						
39	13 CS 431	Distributed Databases	3-0-0	3	CO3	174	Apply parallel database for indexing, collection of join queries, scheduling, optimizing, transactions in Distributed, Grid Databases and Grid Concurrency Control.	2																new course introduced	Enhance the skills in study towards distributed databases and enhance the option towards employability			
					CO4	175	Illustrate grid transaction atomicity, durability, replica management and data intensive applications.	2																				
					CO1	176	Understand the basic components of TCP Protocol suite.	1																				
					CO2	177	Understand the concepts of IP protocol, mobile IP, P Addressing mechanisms & attacks on IP	1																				
40	13 CS 334	TCP/IP Protocol suite	3-0-0	3	CO3	178	Apply socket API to write programs related to client server communication	1																		New Course is Added	Internet kind of protocols are taught for Employability	
					CO4	179	Analyze Various Networking Applications & Network management techniques via a case study/ NS2 simulator tool.	1																				
					CO1	180	Student will be able to Understand the key components of Network Programming	1																				
					CO2	181	Student will be able to Apply socket API for TCP and UDP to write programs related to Client/Server communication	1																			New Course is Added	Helps towards employability as networking experts
41	13 CS 335	NETWORK PROGRAMMING	3-0-0	3	CO3	182	Student will be able to Analyze various Advanced Sockets & Networking Applications through Unix domain protocols and Routing Sockets	1																				

Dipak Kumar Mohan
Alternate HOD

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale				
								a	b	c	d	e	f	g	h	i	j	k			1	2		
51	13 CS 341	CRYPTA ANALYSIS	3-0-0	3	220	CO1	Understand the classic ciphers and world war II ciphers	1											3	New course introduced from previous syllabus	Helps towards employability as Security and Forensics experts			
					221	CO2	Understand the Stream Ciphers and Block Ciphers		2														3	
					222	CO3	Illustrate and Examine Hash Functions	1																3
					223	CO4	Describe the Public Key System and analyze the Attacks on Public Key System		2															3
52	13 CS 342	Elliptic curve Cryptography	3-0-0	3	224	CO1	Understand the Equations, Laws and Proofs for Elliptic Curve	1												2	Helps towards employability as Security and Forensics experts			
					225	CO2	Understand the Torsion Points, Elliptic Curve Over Finite Fields		1													2		
					226	CO3	Understand the Discrete Logarithm Problem, Elliptic Curve Cryptography																2	
					227	CO4	Understand the Applications, Divisors, Hyper Elliptic Curves.																	2
					228	CO1	Illustrate Web Application (In) security, Core Defense Mechanisms, Web Application Technologies, Mapping the Application, Bypassing Client-Side Controls.																	
					229	CO2	Analyze Attacking Authentication, Attacking Session Management, Attacking Access Controls, Attacking Data Stores, Attacking Back-End Components.														2	New course	Helps towards employability as	

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 Guntur District, Andhra Pradesh

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale								
								a	b	c	d	e	f	g	h	i	j	k										
								PSO 1		PSO 2																		
53	13 CS 437	Cyber Security	3-0-0	3	230	CO3	Categorize Attacking Application Logic, Attacking Users: Cross-Site Scripting, Attacking Users: Other Techniques, Automating Customized Attacks, Exploiting Information Disclosure.		2														introduce d	Security and Forensics experts employability as				
					231	CO4	Inspect Attacking Native Compiled Application, Attacking Application Architecture, Attacking the Application Server, Finding Vulnerabilities in Source Code.		2																			
					232	CO1	Students are able to understand importance of system reliability using common statistical distributions and the importance of reliability models.		1	1																		
					233	CO2	Students are able to analyze security risk by using quantitative models and stopping rules in software testing.		2																			
54	13 CS 438	Trust Worthy Computing	3-0-0	3	234	CO3	Students are able to analyze availability modeling and investigate the reliability in simple and complex embedded systems, Introduction to Microsoft TWC.		2	2																		
					235	CO4	Students are able to understand applications of aspect-oriented programming in trustworthy computing.		2								2											


Dr. G. Lakshmi Mohan
 Alternate HOD

Computer Science & Engineering
 Khareru Lakshmaiah Education FC
 (Deemed to be University)
 Green Fields, VADDESWARAM
 Guntur District, Andhra Pradesh

Sno	Course Code	Course Title	L-T-P	Credits	S NO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale						
								a	b	c	d	e	f	g	h	i	j	k			PSO 1	PSO 2				
55	13 CS 343	Advanced Computer Architecture	3-0-0	3	236	CO1	Student will be able to Understand the Overview of von Neumann architecture and Pipelining	1											2	New course introduced	Helps towards employability for expertized knowledge in Multi core, Grid and Cloud Technologies					
						CO2	Student will be able to Demonstrate Hierarchical Memory Technology	1															2			
						CO3	Student will be able to Explain the Instruction level parallelism	1																2		
						CO4	Student will be able to Analyze the Multiprocessor Architecture	2								2								2		
56	13 CS 344	Parallel Computing	3-0-0	3	240	CO1	Understand the performance improvements of uni-processor systems through pipelining, classify different parallel processing systems.	1												2	New course introduced	Helps towards employability for expertized knowledge in Multi core, Grid and Cloud Technologies				
						CO2	Differentiate shared memory and distributed memory systems, design parallel programs through shared memory programming API's	2																2		
						CO3	Apply the MPI features to solve the Distributed memory programming problems																2			
						CO4	Analyze the parallel programming concepts on PRAM computing model.													2						
						CO1	Understand Enterprise cloud computing paradigm.	1																	2	
						CO2	Understand PaaS cloud Computing Environments.																			2
						CO3	Analyze the performance of High performance computer on clouds.																	2		
						CO4	Evaluate the data security issues in clouds.																			
57	11 CS 439	Cloud Computing	3-0-0	3	247	CO1	Understand and analyze the parallel programming concepts complex systems	2												New course introduced	Helps towards employability for expertized knowledge in Multi core, Grid and Cloud Technologies					
						CO2	Understand PaaS cloud Computing Environments.																	2		

Dr. K. Kishina M
 Alternate HOD
 Computer Science & Engg
 Koneru Lakshmaiah Education
 (Deemed to be) University
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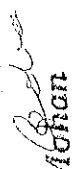
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								a	b	c	d	e	f	g	h	i	j	k			PSO I	PSO 2			
58	13 CS 343	Grid Computing	3-0-0	3	249	CO2	Apply the concepts of parallel programming using CORBA										2				New course introduced	Helps towards employability for expertized knowledge in Multi core, Grid and Cloud Technologies			
					250	CO3	Understand and analyze the concepts of cluster computing and its deployment				2									2					
					251	CO4	Understand and integrate the resources and services in Metacomputing				2														
					252	CO1	Apply parallel programming algorithms																		
59	13 CS 440	High Performance Computing	3-0-0	3	253	CO2	Understand and apply the analytical modelling of parallel programs														New course introduced	Helps towards employability for expertized knowledge in Multi core, Grid and Cloud Technologies			
					254	CO3	Apply and analyze the GPU programming																		
					255	CO4	Apply parallel programming to heterogeneous computing																		
					256	CO1	Students are able to understand two-dimensional Computer Graphics	1																	
60	13 CS 346	2D/3D Graphics	3-0-0	3	257	CO2	Students are able to solve mathematical methods for three dimensional computer graphics			2											New Course is Added	Helps towards employability for expertized knowledge Graphics and Visualization			
					258	CO3	Students are able to compare and contrast realistic rendering			2															
					259	CO4	Students are able to explain geometric modeling	1																	
					260	CO1	Describe the uses of Digital Image Processing and its Applications, Image Acquisition and Image Enhancement				1														
61	13 CS 347	Digital Image Processing	3-0-0	3	261	CO2	Analyze image enhancement algorithms such as histogram modification, contrast manipulation, edge detection and restoration		1												New course introduced	Helps towards employability for expertized knowledge			


 Alternate HOD
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 Koneru Lakshmaiah Education Foundation
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 Guntur District, Andhra Pradesh

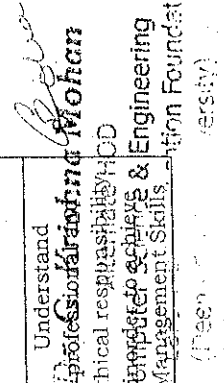
Sno	Course Code	Course Title	L-T-P	Credits	SNO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale										
								a	b	c	d	e	f	g	h	i	j	k												
								PSO																						
65	13 CS 349	Soft Computing	3-0-0	3	275	CO4	Apply and analyze the Network layer functionalities for multimedia technology	2																2	Helps towards employability for expertized knowledge in Artificial Intelligence and Neuralnetworks and fuzzy Logic					
					276	CO1	Explain soft computing differentiating hard and soft computing and enumerate briefly overview of fuzzy systems, neural networks and genetic algorithms	1																				2		
					277	CO2	Demonstrate a fuzzy controller using fuzzy logic systems	2	2																				2	
					278	CO3	Interpret pattern recognition using artificial neural network	2	2																				2	
66	13 CS 350	Machine Learning	3-0-0	3	279	CO4	Interpret Genetic algorithms and operations.	2	2																	2	Helps towards employability for expertized knowledge in Artificial Intelligence and Neuralnetworks and fuzzy Logic			
					280	CO1	Understand and apply the differences among the styles of learning: supervised, reinforcement, unsupervised and parametric methods	1																					2	
					281	CO2	Comprehend probabilistic methods for learning and for classification							2																2
					282	CO3	Analyze the non parametric methods and decision trees to take the proper decision making.	2																						2
					283	CO4	Understand rule based knowledge and Kernel machines to reduce the cost of various statistical methods, Bayesian Estimation, HMM models	2																						2
					284	CO1	Understand the concept of Essential Information Theory, Linguistic Essentials and Statistical Inference n-gram models	2																						3

Dr. G. Krishna Kumar
 Head of the Department
 Computer Science & Engineering
 Koneru Bhattaiah Engineering College
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 Guntur District, Andhra Pradesh


Sno	Course Code	Course Title	L-T-P	Credits	CO NO	Description of the Course Outcome	Program Outcomes (POs)											Type	Rationale													
							a	b	c	d	e	f	g	h	i	j	k			PSO												
							1	2	3	4	5	6	7	8	9	10																
67	13 CS 351	Natural Language Processing	3-0-0	3	CO2	Analyze Word Sense Disambiguation ,HMM and CFG									2									New Course is Added	Helps towards employability for expertized knowledge in Artificial Intelligence and Neuralnetworks and fuzzy Logic							
					CO3	Illustrate Text and Sentence Alignment, Clustering in detail.												2														
					CO4	Explain Information Retrieval and Text Categorization , Perceptron in detail.													2													
					CO1	Students will be able to compare and contrast different types of Agents													2													
68	13 CS 443	Multi Agent Systems	3-0-0	3	CO2	Students will be able to illustrate how agents interact with each other to perform tasks delegated to them									2										new course introduced	Helps towards employability for expertized knowledge in Artificial Intelligence and Neuralnetworks and fuzzy Logic						
					CO3	Students will be able to choose different methodologies for designing and developing an Agent													3													
					CO4	Students will be able to explain the various applications of Agents													2													
					CO1	Understand image representation and modeling																										
69	13 CS 444	Computer Vision	3-0-0	3	CO2	Apply Image transformation methods									2										New course introduced	Helps towards employability for expertized knowledge in Artificial Intelligence and Neuralnetworks and fuzzy Logic						
					CO3	Interpret image processing algorithms																										
					CO4	Understand face detection and recognition algorithms																										
					CO1	Understand the fundamentals of database management systems including data models, database architectures, and database manipulations and be able to model ER-diagrams.																										
					CO1																											


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								a	b	c	d	e	f	g	h	i	j	k			PSO 1	PSO 2						
70	13 OE 429	Fundamentals of Information Technology	3-0-0	3	297	CO2	Understand the theories and techniques in developing database applications and be able to write queries, functions and procedures with help of SQL.																	modified from previous syllabus	concepts of data engineering is taught for employability			
					298	CO3	Understand the different normal forms and transaction issues and be familiar with managing database systems, new developments and trends in databases.																					
71	12 OE 445	Fundamentals of DBMS	3-0-0	3	299	CO1	Understand the architectural design of a computer and various basic concepts of operating systems and programming fundamentals																	modified from previous syllabus	overall picture of IT is taught for employability			
					300	CO2	Analyze various software development methodologies and gain capability to design databases.																					
72	13 OE 430	SELF DEVELOPMENT	3-0-0	3	301	CO3	Designing various model diagrams using Unified modelling language and understand basic commands that come across in querying a database.																	New course introduced	Builds Personality ethics and Values and helps in employment			
					302	Co1	Understanding Values, Behavior and Attitudes																					
					303	CO2	Understand and observe Observation, Introspection, Contemplation, Meditation and Concentration, Schools of Meditation																					
					304	CO3	Understand Stress Management, Tips for Self-Management																					
73	ME	Management Elective	3-0-0	3	305	CO	To enhance the Management Skills and to learn Professional Ethics																Retained from previous curriculum	Understand ethical responsibility of Management Skills				


Professor V. Mohan
 Head of Department
 Department of Mechanical Engineering
 Anna University

Sno	Course Code	Course Title	L-T-P	Credits	SNO	CO NO	Description of the Course Outcome	Program Outcomes (POs)											PSO	Type	Rationale
								a	b	c	d	e	f	g	h	i	j	k			
								1	2												
74	13-AC-201	Energy & Society	Audit course	nil	306	CO 1	To Understand various aspects of Energy and its Technology												1	Retained from previous curriculum	To explore skills on the societal
						CO 2	To acquire Knowledge on the energy audits and enhance for energy estimation					2									
75	13-AC-202	Employability Skills	Audit course	nil	308	CO 1	Analyze one's own strength as a speaker/ Communicator and use discretion while listening.												1	Introduced new course	Enhances Skills in communication which in turn helps in achieving Employability
						CO 2	Apply and analyze various concepts of writing strategies in professional communication skills like, reports, resume and minutes of the meeting.						2								
76	13-AC-301	Advanced Employability Skills	Audit course	nil	310	CO 1	Understand the organization of the passage and also analyze the tone, attitude and style of the author.												1	Introduced new course	Enhances Skills to compete in competitive exams
						CO 2	Acquire knowledge of and apply people skills in various social organizational and corporate ambiances.							2							
77	13-IP-401	Term Paper	0-0-4	2	311	CO	To enhance Practical exposure towards solving complex engineering problems in order to achieve Research Exposure													Retained from previous curriculum	Enhances Practical exposure towards solving complex engineering problems in order to achieve employability
						CO 2	To enhance Practical exposure towards solving complex engineering problems in order to achieve Research Exposure														
78	13-MP401	Minor project	0-0-6	3	312	CO	To enhance Practical exposure towards solving complex engineering problems in order to achieve Research and Industrial Exposure													Retained from previous curriculum	Enhances Practical exposure towards solving complex engineering problems in order to achieve employability
						CO 1	Advances in Computing deals with the theoretical foundations of information and computation and their implementation and application in computer systems														
79	15CS512	Computational	3-0-2	4	313	CO 1	It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth													New Course is Added	Useful for the skill development, good to design new Alternatives HOD
						CO 2															


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 Assistant Professor
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 (Faculty, VADDESWARAMM
 Guntur District, Andhra Pradesh)

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								a	b	c	d	e	f	g	h	i	j	k											
								1	2																				
83	15CS516	Formal Methods	3-0-2	4	329	CO4	Understand the design issues of RISC and CISC CPUs and the design issues of pipeline architectures																	New Course is Added	Useful for the skill development, good to design new languages				
					330	CO1	Analyzing the design issues involved in various constructs of programming languages, Design top-down and bottom-up parsers																						
					331	CO2	Develop syntax directed translation schemes, Design and implement LR parser																						
					332	CO3	Use formal grammars to specify the syntax of Languages																						
84	130E456	Algorithm Design and Analysis	3-0-2	4	333	CO4	Analyzing the methods and tools to define syntax and semantics of a _n languages																		New Course is Added	fine tuning and design of algorithms for the requirement for skill development			
					334	CO1	Examine the space and time complexities of basic algorithms																						
					335	CO2	Demonstrate Greedy and Dynamic programming methodology for solving optimization problems																						
					336	CO3	Apply back tracking and branch and bound methodology for searching same static space trees																						
		Principles			337	CO4	Identify the purpose of NP-hard, NP-complete hard graph problems and illustrate PRAM algorithms																		New	Basic management of			
					338	CO1	Understand the basic concepts of operating system, OS structure and process concepts.																						
					339	CO2	Apply the concepts Process Scheduling algorithms and Process Synchronization Problems.																						


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 Computer Science & Engineering
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 JNTU, VAIDYARAOJI



K L University

(Koneru Lakshmaiah Education Foundation)

Deemed to be University, Estd. w/s 3 of UGC Act, 1956

Accredited by NAAC as 'A' Grade University Approved by AICTE - ISO 9001-2008 Certified

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Department of Computer Science and Engineering

Alumni Feedback on Curriculum

Academic Year (2013-14) Sem I

1. To increase (Inter Discipline) open electives from two to three to gain more fundamental Knowledge in other department (or) general areas.
2. To recommend Term Paper as minor project and finally as major project to come up with publications to enhance more on Research and Publications.
3. To make Artificial Intelligence course as the core course.
4. To Introduce JAVA concepts in object oriented programming.

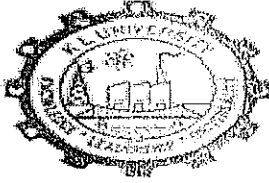

HOD-CSE

PROFESSOR

Computer Science and Engineering

K L UNIVERSITY

Vaddeswaram, Guntur District



K. L. University

U/S 3 of UGC Act, 1956
Koneru Lakshmaiah Education Foundation

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MINUTES OF DEPARTMENT ACADEMIC COMMITTEE MEETING

The Department Academic Committee Meeting was conducted in C408, Computer Science and Engineering, on 11th November 2013 at 1.00 PM.

The following Agenda Items are discussed and the resolutions passed are marked against them.

Agenda:

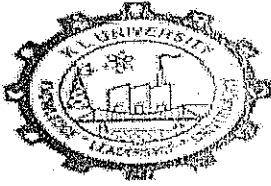
- To discuss feedback obtained from various stake holders.
- To discuss the syllabus and course structure of B.tech 2013 batch (Annexure-I).
- To discuss and formulate the guidelines for project based labs.

The following members were present:

1. Dr. V.Srikanth
2. Dr. V. CHANDRA PRAKASH.
3. Dr. T. V. Rao.
4. Prof. S. VENKATESWARLU.
5. Dr. K. SUBRAHMANYAM.
6. Dr. M. R. NARASING RAO.
7. Dr. D. RAJESWARA RAO.
8. Dr. M.S.R PRASAD.
9. Dr. K. V. V. SATYANARAYANA
10. Dr. V. RAMA KRISHNA
11. Dr. K. RAJA SEKHAR.
12. Mr. M. VISHNUVARDHAN.
13. Mr. K. V. D. KIRAN.
14. Naga Sabarinath (10100416)
15. V. Alakananda (10100242)
16. Himaja (10100325)

PROFESSOR

Computer Science and Engineering
K. L. UNIVERSITY
K. L. UNIVERSITY, K. L. UNIVERSITY DISTRICT



K L University

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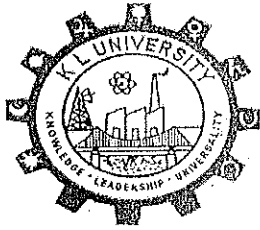
The following points were discussed and resolved:

- Up on discussing the feedback from DAC members, it is resolved to change the course OOP through C++ to JAVA in order incorporate core JAVA skills for student.
- Up on discussion regarding project based labs, In order to enhance practical knowledge in core courses, three Mini projects are removed from Y12 Batch and resolved to include Capstone Design Project to every core course(15 courses).

All programs for 2013-14 has been framed to be in relevance to APIIC, Human Resource Development Policy, Govt. of India, National Skill Development Corporation, Govt. of India, Confederation of Indian Industries, ABET, NBA norms, O*NET and AICTE statutory norms. Thus, framed curriculum has been developed through framing of Program Educational Objectives (PEO's) which are mapped to the university Vision and Mission, which are there by disseminated into Student Outcomes (SO's) which thereby have been developed into relevant Course Outcomes (CO's).

The resolutions are forwarded to BOS committee, for the approval.

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Computer Science and Engineering
K L UNIVERSITY
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Approved by A.I.C.T.E ± Accredited by N.B.A.± ISO 9001-2000 Certified

CONSOLIDATED REPORT ON FEEDBACK GIVEN BY ACADEMIC PEERS

2013-14

Sno	Date	Feedback	Resource person name
1	25 Apr 2014	Introduce new M.Tech. program on cloud computing.	A.S.N.Chakravarthy Professor, Dept. of CSE, JNTUK.
2	25 Apr 2014	Suggestions on new M.Tech. CSE curriculum and approved M.Tech(CSE) structure.	P.S.Avadhani, Prof. & Vice principal, AU.

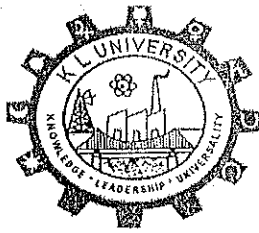
Dr. V. SRIKANTH

Head of the Department

Computer Science and Engineering

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VADDESWAREM-522 502, Guntur Dt.



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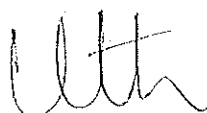
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CONSOLIDATED REPORT ON FEEDBACK GIVEN BY ACADEMIC PEERS

2013-14

	Excellent	Very Good	Good	Average	Total
Feed back(in %)	0	25	75	0	100


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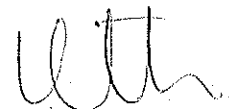
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DEPARTMENT OF CSE

Industry personnel feedback on the curriculum

SUMMARY REPORT - A.Y. 2013-14

S No	Date	Feedback	Industry person	Industry
1	14-06-2013	Informed the importance of Computer vision in IT industry and suggested to start a course in that	Mr. S. Siva Prasad	FactSet
2	03-07-2013	Give emphasis for Animation technologies like Maya	Mr. Ankit	CTS
3	20-12-2013	Informed the importance of Fundamentals of Information technology to all the Engineering students, He strongly recommended to start a course to non IT students for which the syllabi and material will be provided by Infosys	Mr. Pramod	Infosys
4	04-04-2014	Introduce video and audio streaming in game and graphics programming. It can be introduced as a separate course	Mr. P Ram	Wipro
5	25-04-2014	Described the cloud computing emphasis and recommended to start a new stream in M.Tech	Mr. A. Srinivasa Rao	Tech Mahindra


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CONSOLIDATED REPORT ON FEEDBACK GIVEN BY PARENTS

2013-14

SNQ	Date	Feedback	Parent Name
1	2.11.2013	Counselling the students regularly is good	Mrs.M.Bhanu Rekha
2	2.11.2013	In Laboratory more no of faulty is available to clear the doubts my ward is happy	Mr.K.Soma Sekhara varma
3	2.11.2013	Discipline is good	Mr.V.V.Koteshwra Rao
4	2.11.2013	Existing Standards of Curriculam is Good	Mrs.B.Vijaya
5	4.07.2014	My ward is feeling difficult of data structures to get pass marks. Requesting to reduce the burden of course	Mr.O.Kanaka Durga
6	5.11.2014	Please introduce java course instead of oops through C++	Mrs.M.Lavanya
7	4.07.2014	Library is Good	Mr.N.Rambabu
8	5.11.2014	Please see that the student get enough support from faculty when they are practicing in the class also	Mr.M.Subba Rao

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Dr. V. Subramanian

Head of the Department

Computer Science and Engineering

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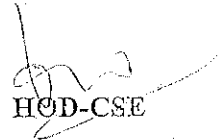
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Department of Computer Science and Engineering

Alumni Feedback on Curriculum

Academic Year (2013-14) Sem 2

1. Give more emphasis on coding and practice which will give hand during placements.
2. New stream can be included in M.Tech stream explicitly covering Cloud computing domain.


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