

K L UNIVERSITY

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 25.03.2013

BOARD OF STUDIES INVITATION

Electrical & Electronics Engineering Department Board of Studies meeting is scheduled on 26.03.2013 at 10:30 AM in E104. All the BOS Members are requested to make it convenient to attend the meeting.

Agenda of the Meeting:

1. To consider the proposed 2013-14 admitted batch B.Tech Curriculum and make recommendations to the Academic council KLU for approval the same.
2. To consider the proposed 2013-14 admitted batch M.Tech Curriculum and make recommendations to the Academic council KLU for approval the same.

Following are the members present:

1. Dr.M.Venu Gopal Rao, Professor & Head, EEE Department, K L University
2. Dr. P. Linga Reddy, Professor, EEE Department, K L University
3. Dr.A.Anand Kumar, Principal & Professor, EEE Department, K L University
4. Dr. G. Kesava Rao, Professor, EEE Department, K L University
5. Dr. G. R.K.Murthy, Professor, EEE Department, K L University
6. Prof. K. Subba Rao, Professor, EEE Department, K L University
7. Dr. M.Umavani, Professor, EEE Department, K L University
8. Mrs. S.V.N.L.Lalitha, Associate Professor, EEE Department, K L University
9. Mr. K. Narasimha Raju, Associate Professor, EEE Department, K L University
10. Mr. D. Narasimha Rao, Associate Professor, EEE Department ,K L University
11. Mr. D. Seshi Reddy, Associate Professor, EEE Department ,K L University
12. Mr. R.B.R. Prakash, Associate Professor, EEE Department ,K L University
13. Mrs. K Sarada, Associate Professor, EEE Department K L University

K L UNIVERSITY

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 26.03.2013

MINUTES OF BOARD OF STUDIES MEETING

The following are the Minutes discussed in the “Board of Studies” meeting held on 26.03.2013 at 10.30 AM in HOD –EEE chamber.

Agenda of the Meeting:

1. To consider the proposed 2013-14 admitted batch B.Tech Curriculum and make recommendations to the Academic council KLU for approval the same.
2. To consider the proposed 2013-14 admitted batch M.Tech Curriculum and make recommendations to the Academic council KLU for approval the same.
3. Any other points with permission of the chair.

The following members are present:

- 1) Dr.M.Venu Gopal Rao, Professor & Head, EEE Department, K L University
- 2) Dr. P. Linga Reddy, Professor, EEE Department, K L University
- 3) Dr.A.Anand Kumar, Principal & Professor, EEE Department, K L University
- 4) Dr. G. Kesava Rao, Professor, EEE Department, K L University
- 5) Dr. G. R.K.Murthy, Professor, EEE Department, K L University
- 6) Prof. K. Subba Rao, Professor, EEE Department, K L University
- 7) Dr. M.Umavani, Professor, EEE Department, K L University
- 8) Mrs. S.V.N.L.Lalitha, Associate Professor, EEE Department, K L University
- 9) Mr. K. Narasimha Raju, Associate Professor, EEE Department, K L University
- 10) Mr. D. Narasimha Rao, Associate Professor, EEE Department, K L University
- 11) Mr. D. Seshi Reddy, Associate Professor, EEE Department, K L University
- 12) Mr. R.B.R. Prakash, Associate Professor, EEE Department, K L University
- 13) Mrs. K Sarada, Associate Professor, EEE Department K L University

The following External Members gave his valuable suggestions

1. Dr.D.V.S.S.Siva Sarma, Professor, EEE Department, NIT Warangal

Dr.M.Venu Gopal Rao welcomed the BOS Members for the “Board of Studies Meeting”. The Chairman discussed about the previous BOS meeting resolutions and amendments made to the curriculum which are approved in Academic Council.

The Board of studies of the Department of Electrical & Electronics Engineering made the following resolutions:

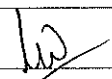
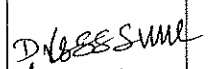
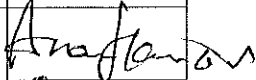



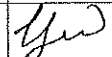
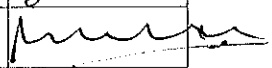

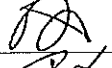

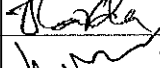
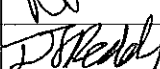

1. Dr.M.Venu Gopal Rao put forward the modifications and added few courses in the syllabus of B.Tech programme offered for 2013-14 Batch.
2. Dr.S.V.N.L,Lalitha, PS Research Group Head put forward the modifications and added few courses in the syllabus of Power Systems specialisation courses offered for 2013-14 Batch.
3. The tabled syllabus put forwarded by research group heads were approved by the board members
4. Dr.D.V.S.S.Siva Sarma, put forward the modifications in merging the Electrical Machines courses of Three (DC Machines, AC Machines-I & AC Machines-II) to Two (DC Machines & Transformers, AC Machines)
5. Dr. G. R.K.Murthy, PED Research Group Head put forward the modifications and added few courses in the syllabus of Power Electronics & drives specialisation courses offered for 2013-14 Batch.
6. Prof. K. Subba Rao, Proposed a new specialisation named as "Digital Systems" under this specialisation, Four New Courses are introduced such as (PLD'S & FPGA, VLSI Design, Embedded Systems Design & DSP Processors)
7. The tabled syllabus put forwarded by Prof.K.Subba Rao were approved by the board members unanimously.
8. The revised curriculum structure for 2013-14 Admitted B.Tech batch was approved by all members present in the meeting. The detailed structure of 2016-17 was shown in Annexure 1.
9. The revised curriculum structure for 2013-14 Admitted M.Tech batch was approved by all members present in the meeting. The detailed structure of 2016-17 was shown in Annexure 2.
10. All the recommendations of the DAC (Department Academic Council) minutes held on 15th September 2012 were approved


BOS CHAIRMAN

Professor
Dept of EEE
K. L. University
Sreenivasulu Reddy Fields, Vaddeswaram,
Guntur District, A.P. Pin : 522 502

K L University
Department of ELECTRICAL & ELECTRONICS Engineering
Board of Studies (BOS)

The following members attended the meeting on 26th March 2013 at 10:30 AM:

| S. No | Name of the member | Designation | Member | Signature |
|-------|-----------------------|----------------------------|----------|---|
| 1 | Dr.M.Venu Gopal Rao | Professor, HOD | Internal |  |
| 2 | Dr.D.V.S.S.Siva Sarma | Professor, NIT Warangal | External |  |
| 3 | Dr.A.Anand Kumar | Professor | Internal |  |
| 4 | Dr.G.R.K.Murthy | Professor | Internal |  |
| 5 | Dr.P.Linga Reddy | Professor | Internal |  |
| 6 | Dr.M.UMAVANI | Professor | Internal |  |
| 7 | Dr. G. Kesava Rao | Professor | Internal |  |
| 8 | Prof.K.SUBBARAO | Professor | Internal |  |
| 9 | Mrs.S.V.N.L.LALITHA | Associate Professor | Internal |  |
| 10 | Mr.D.Narasimha Rao | Associate Professor | Internal |  |
| 11 | Mr. R.B.R. Prakash | Associate Professor | Internal |  |
| 12 | Mrs. K Sarada | Associate Professor | Internal |  |
| 13 | Mr. K. Narasimha Raju | Associate Professor | Internal |  |
| 14 | Mr. D. Seshi Reddy | Associate Professor | Internal |  |

KL University
Department of Electrical and Electronics Engineering
2013-17 Batch -Course Articulation Matrix

| Course Code | Course Title | CO/LO | Description of the Course Outcome | Description of the Course Outcome | | | | | | | | | | | | Semesters | Credits | | |
|-------------|--|-------|---|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--|-----------|---|-------|---|
| | | | | a | b | c | d | e | f | g | h | i | j | k | | | | | |
| 18EN1 | ENGLISH | CO1 | Knows: To enable the students with the study of body language as it is an essential component of soft skills. | 1 | | | | | | | | | | | | | This course is retained for crediting of language skills | 2+0-2 | 2 |
| | | CO2 | Lexis, Vocabulary building | 1 | | | | | | | | | | | | | | | |
| | | CO3 | English usage and mechanics, Grammar and verbal reasoning. | 1 | | | | | | | | | | | | | | | |
| | | CO4 | Office communication to improve learning skills. | 2 | | | | | | | | | | | | | | | |
| 18EN16 | ECOLOGY AND ENVIRONMENT | CO1 | Understand the importance of Environmental education and conservation of natural resources | | | | | | | 1 | | | | | | | This course is retained to give awareness on environment & sustainability | 2+0-0 | 2 |
| | | CO2 | Understand the importance of ecosystems and biodiversity. | | | | | | | | | 1 | | | | | | | |
| | | CO3 | Understand the knowledge on solid waste management | | | | | | | | | | 1 | | | | | | |
| | | CO4 | Understand the knowledge on disaster management and EIA process | | | | | | | | | | | 1 | | | | | |
| 18EN101 | LINEAR ALGEBRA AND MULTIVARIATE CALCULUS | CO1 | Perform elementary operations on matrices including determination of rank and inverse, demonstrate mastery in using matrix algebra to find the solution to a linear system equations, iterative methods; Jacobi's method and Gauss-Jordan method. Determine the eigen values and eigen vectors, Cayley-Hamilton theorem and its applications, nature of the quadratic forms | 2 | 2 | | | | | | | | | | | | This course is modified to develop problem solving skills | 2+0-2 | 4 |
| | | CO2 | Interpret and apply differential calculus on problems involving rate of change. Explain the geometrical interpretation and applications of Rolle's theorem and mean value theorem; analyze the maximization and minimization problems. | 2 | 1 | | | | | | | | | | | | | | |
| | | CO3 | Illustrate the applications of integral calculus in solving problems on area, volume, displacement work, etc. Compute improper integrals, Beta, Gamma functions and their properties. Compute multiple integrals by changing the order of integration and change of variables such as polar, spherical and cylindrical coordinates. | 2 | 2 | | | | | | | | | | | | | | |
| | | CO4 | Determine gradient, divergence and curl of vector point functions with their properties. Calculate the line, surface and volume integrals, Green's, Gauss divergence and Strog's theorems and their applications. | 2 | 2 | | | | | | | | | | | | | | |
| 18EN103 | ENGINEERING PHYSICS | CO1 | Explain how ultrasonic waves are produced and detected. | | | | | | | | | | | | | | This course is modified to develop problem solving pertaining to physics | 3+0-2 | 4 |
| | | CO2 | Determine flaws present inside a material using NDT techniques. | | | | | | | | | | | | | | | | |
| | | CO3 | Compute the magnetic induction produced by current carrying conductors by using Biot-Savart law & Ampere's law, Compute the Lorentz force experienced by a charged particle. | | | | | | | | | | | | | | | | |
| | | CO4 | Understand different aberrations in lenses and their corrections, phenomenon of interference in thin films of uniform thickness | | | | | | | | | | | | | | | | |
| 18EN103 | ENGINEERING MATERIALS | CO1 | Explain the working of optoelectronic devices like LED, photodiode, photo transistor and solar cells. Explain the phenomenon of superconductivity and its applications | | | | | | | | | | | | | | To enhance the knowledge of materials for designing electrical equipment | 3+0-0 | 3 |
| | | CO2 | Understands structure of crystalline solids, kinds of crystal imperfections and appreciates structure-property relationship in crystals. | | | | | | | | | | | | | | | | |
| | | CO3 | Understands the role of electronic energy band structures of solids in governing various electrical and optical properties of materials | | | | | | | | | | | | | | | | |
| | | CO4 | Understands role of molecular vibrations in determining thermal properties of materials and deformation of materials in response to action of load, for identification of materials having specific engineering applications. | | | | | | | | | | | | | | | | |
| 18EN104 | ENGINEERING GRAPHICS WITH CAD | CO1 | Understands spin and orbital motion of electrons in determining magnetic properties of materials and identifies their role in classification soft & hard magnetic materials for their specific engineering applications. | | | | | | | | | | | | | | This course is retained for crediting the software skills in design | 0+0-4 | 2 |
| | | CO2 | Draft Orthographic views, projections of planes and solids manually and by using AutoCAD software Tool (AutoCAD) | | | | | | | | | | | | | | | | |
| | | CO3 | Drafting Isometric views, Isometric views manually and by using AutoCAD | | | | | | | | | | | | | | | | |
| | | CO4 | Development of surfaces and perspective views manually and by using AutoCAD | | | | | | | | | | | | | | | | |

Professor V. S. R. Rao
 Dept of EEE
 KL UNIVERSITY
 Green Fields, Vadakkanchery, Kollam

| Course Code | Course Title | CO NO | Description of the Course Outcome | a | b | c | d | e | f | g | h | i | j | k | Course Type | Rationale | L-T-P | Credits | | | |
|-------------|---------------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|-------|---|--|
| IESB01 | PROBLEM SOLVING THROUGH C PROGRAMMING | CO1 | Illustrate how problems are solved using computers and programming. | 2 | | | | 2 | | | | | | | Course Modified from Earlier Curriculum | This course is modified for better understanding of skills through C language | 5-0-2 | 1 | | | |
| | | CO2 | Interpret & illustrate user defined C functions and different operations on list of data. | 2 | | | | 2 | | | | | | | | | | | | | |
| | | CO3 | Implement Linear Data Structures and compare them. | 2 | | | | 2 | | | | | | | | | | | | | |
| | | CO4 | Implement Binary Trees. | 2 | | | | 2 | | | | | | | | | | | | | |
| IESB02 | LANGUAGE AND REASONING SKILLS | CO1 | Understand the method of identifying the meaning of words and apply them in context. | | | | | | 2 | | | | | | | | | | | | |
| | | CO2 | Understand and analyze different cultures and the importance of empathy in cross-cultural communication. | | | | | 2 | | | | | | | | A New Course Introduced | This Course is added to enrich the communication skills for Employment | 2-0-2 | 2 | | |
| | | CO3 | Understand and analyze seven techniques of reading and improve reading speed. | | | | | | 2 | | | | | | | | | | | | |
| | | CO4 | Understand and apply writing strategies in office/ formal communication | | | | | | 2 | | | | | | | | | | | | |
| IESB04 | HUMAN VALUES | CO1 | realize and understand the basic aspiration, harmony in the human being. | | | | | 1 | | | | | | | | | | | | | |
| | | CO2 | embrace the roadmap to fulfill the basic aspiration of human beings. | | | | | | 2 | | | | | | | A New Course Introduced | This Course is added to enrich the Life skills | 2-0-0 | 2 | | |
| | | CO3 | Analyze the profession and its role in this ecosystem. | | | | | | | 2 | | | | | | | | | | | |
| | | CO4 | Develop holistic perception by understanding harmony in nature | | | | | | | 2 | | | | | | | | | | | |
| IESB02 | DIFFERENTIAL EQUATIONS | CO1 | Describe different situations required to model differential equations. Classify the differential equations and identify suitable solution techniques | 2 | 2 | | | | | | | | | | | | | | | | |
| | | CO2 | Illustrate modeling an engineering problem as a first order ordinary differential equation (ODE) and solving it using numerical methods available viz. Taylor, Euler, modified Euler and Runge-Kutta method | 2 | 1 | | | | | | | | | | | | | | | | |
| | | CO3 | Analyze engineering problem solutions in particular electric circuits, deflection of beams, free oscillations, forced oscillations and resonance through differential equations | 2 | 2 | | | | | | | | | | | | A New Course Introduced | This Course is added to Enhance the mathematical knowledge apply to analyse physical systems | 2-0-0 | 4 | |
| | | CO4 | Illustrate to model an engineering problem second order PDEs namely one dimensional wave and heat equations, two dimensional Laplace equation into PDEs and find their general solution using, C.F and P.I | 2 | 2 | | | | | | | | | | | | | | | | |
| IESB04 | ENGINEERING CHEMISTRY | CO1 | Examine water quality and select appropriate purification technique for intended problem | 2 | 2 | | | | | | | | | | | | | | | | |
| | | CO2 | Predict potential complications from combining various chemicals or metals in an engineering setting | 2 | 2 | | | | | | | | | | | | | | | | |
| | | CO3 | Diversify fundamental aspects of electrochemistry and materials science relevant to engineering phenomena | 2 | 2 | | | | | | | | | | | | | | | | |
| | | CO4 | Apply phase rule, polymers, conducting polymers and nano chemistry to engineering processes | 2 | 2 | | | | | | | | | | | | | | | | |
| IESB02 | MEASUREMENTS | CO1 | Understand and apply the fundamentals of a measurement system, characteristics, transducers and metrology using simulation and experimentation tools. | 2 | 2 | | | | | | | | | | | | | | | | |
| | | CO2 | Understand various electrical & computer parameters, and apply different measuring techniques on various electrical parameters using simulation and experimentation tools. | 2 | 2 | | | | | | | | | | | | | | | | |
| | | CO3 | Understand electronic & electrophysiological parameters, and apply measuring techniques on electronic parameters using simulation and experimentation tools. | 2 | 2 | | | | | | | | | | | | | | | | |
| | | CO4 | Understand and apply different measuring techniques on civil and mechanical parameters using simulation and experimentation tools. | 2 | 2 | | | | | | | | | | | | | | | | |
| IESB06 | WORKSHOP PRACTICE | CO1 | Project based workshop to prepare different models with the aid of workshop trades i.e., Carpentry and Tin smithy. | | | | | | | | | | | 2 | | | | | | | |
| | | CO2 | Project based workshop to prepare different models with the aid of workshop trades i.e., House wiring and Fitting. | | | | | | | | | | | | 2 | | | | | | |
| | | CO3 | Project based workshop to prepare different models with the aid of workshop trades i.e., Filing. | | | | | | | | | | | | 2 | | | | | | |

Handwritten signature and name: HPS GUPTA

| Course Code | Course Title | Description of the Course Outcome | a | b | c | d | e | f | g | h | i | j | k | Course Type | Rationale | L-T-P | Credits | |
|-------------|------------------------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--|-------|---------|--|
| 13ES106 | ENGINEERING MECHANICS | C01 | Understand the concept of forces and apply the static equilibrium equations. | 1 | | | | 2 | | | | | | A New Course Introduced | To enrich the basic knowledge of mechanics pertaining to design of electrical machines | 3-0-2 | 4 | |
| | | C02 | Analyze coplanar and non coplanar system of forces. | 2 | | | | 2 | | | | | | | | | | |
| | | C03 | Apply the concept of centroid & centre of gravity to determine moment of inertia. | | | | | 2 | | | | | | | | | | |
| | | C04 | Analyze the rigid bodies under translation and rotation with and without considering forces. | 2 | | | | 2 | 2 | | | | | | | | | |
| 13ES201 | THERMODYNAMICS | C01 | Apply first law of thermodynamics to non flow systems | 2 | | | | 2 | | | | | | A New Course Introduced | To enrich the basic thermodynamics pertaining to design of electrical machines | 3-0-0 | 3 | |
| | | C02 | Apply steady flow energy equation and second law of thermodynamics to various processes and engineering devices | 2 | | | | 2 | | | | | | | | | | |
| | | C03 | Apply principle of entropy and thermodynamic relations to thermodynamic system and process | 2 | | | | 2 | | | | | | | | | | |
| | | C04 | Evaluate the performance of Otto, Diesel, Dual cycles and Refrigeration cycles | 2 | | | | 2 | | | | | | | | | | |
| 13ES205 | Network Theory | C01 | Understand the VI characteristics of electrical elements, solution of complex problems of DC circuits using transformations, nodal, mesh analysis and theorems. | 1 | | | | 1 | | | | | | A New Course Introduced | This Course is added to acquire basic knowledge on electrical networks | 3-1-0 | 4 | |
| | | C02 | Understand the fundamentals and interconnection relations of 3-phase circuits. | 1 | | | | 1 | | | | | | | | | | |
| | | C03 | Analyze the series and parallel resonance, magnetic circuits and transient analysis of DC / AC circuits. | 2 | | | | 2 | | | | | | | | | | |
| | | C04 | Analyze the two port networks and solve complex networks using topology. | 2 | | | | 2 | | | | | | | | | | |
| 13ES201 | MATHEMATICAL METHODS | C01 | Identify different mathematical problems and reformulate them to facilitate numerical treatment using an appropriate technique. | 2 | | | | | | | | | | Course Modified from Earlier Curriculum | This Course is modified to enhance the mathematical skills pertaining to solve complex problems | 3-0-0 | 3 | |
| | | C02 | Analyze Fourier series, Fourier transforms and Z-transforms to analyze various signals. | 2 | | | | | | | | | | | | | | |
| | | C03 | Construct the probability distribution of a random variable based on a real-world situation, and use it to compute expectations and variance and to estimate unknown parameters of populations and apply the tests of hypothesis. | 2 | | | | | | | | | | | | | | |
| | | C04 | Understand the representation, manipulation and processing operations of DT signals and systems | 2 | | | | | | | | | | | | | | |
| 13ES205 | SIGNAL PROCESSING | C01 | Interpret the analysis of DT systems using Z.T. | 1 | | | | 1 | | | | | | A New Course Introduced | This Course is added to acquire basic knowledge on Signals and its processing | 3-0-2 | 4 | |
| | | C02 | Apply the Fourier Transformation techniques for DT sequences and their applications. | 2 | | | | 2 | | | | | | | | | | |
| | | C03 | Ability to design, implementation and realization of digital filters. | 2 | | | | 2 | | | | | | | | | | |
| | | C04 | Design and Implementation of the Signal processing algorithms in Matlab. | 1 | | | | 1 | | | | | | | | | | |
| 13EC201 | Design of Electronic Systems | C01 | Understand the fundamentals of Basic Electronic systems. | 1 | | | | 1 | | | | | | Course Modified from Earlier Curriculum | This Course is added to acquire basic knowledge on Design of Electronic systems and its applications | 3-0-2 | 4 | |
| | | C02 | Remembering the equivalent models of different Basic Electronic Systems. | 1 | | | | 1 | | | | | | | | | | |
| | | C03 | Analyzing different types of amplifiers using DC, AC, BJT and FETs. | 2 | | | | 2 | | | | | | | | | | |
| | | C04 | Applying fundamental structures of Basic Electronic systems to design different types of Amplifiers | 2 | | | | 2 | | | | | | | | | | |
| 13EE201 | DC Machines & Transformers | C01 | Apply the basic principles of electromechanical energy conversion in electrical machines. | | | | | 2 | | | | | | A New Course Introduced | This Course is added to acquire basic knowledge on DC Machines & Transformers | 3-0-2 | 4 | |
| | | C02 | Analyze operating characteristics of various types of DC generators. | | | | | 2 | | | | | | | | | | |
| | | C03 | Identify various speed control methods of DC motor and evaluate this performance. | | | | | 2 | | | | | | | | | | |
| | | C04 | Evaluate the performance of a transformer and selecting it for particular application. | | | | | 2 | | | | | | | | | | |
| 13ES202 | OBJECT ORIENTED PROGRAMMING | C01 | Design and Implementation of the projects related machines & transformers | 2 | | | | | | | | | | | | | | |
| | | C02 | Understand Basic Concepts of OOP and apply the concepts of classes and objects through Java Language. | 2 | | | | 2 | | | | | | | | | | |
| | | C03 | Apply the concepts of constructors, Overloading, parameter passing, access control, inheritance. | 2 | | | | 2 | | | | | | | | | | |
| | | C04 | Apply Packages, Interfaces, Exception Handling | 2 | | | | 2 | | | | | | | | | | |
| 13ES202 | OBJECT ORIENTED PROGRAMMING | C05 | Apply IO Stream and understand Basic Concepts of Multi-Threading | 2 | | | | 2 | | | | | | | | | | |
| | | C06 | Develop programs and projects in Java. | 2 | | | | 2 | | | | | | | | | | |

Professor & Head
 Dept of EEE
 JNTU
 K. J. Somaiya Institute of Engineering & Information Technology

| Course Code | Course Title | CD-NO | Description of the Course Outcome | u | v | w | x | y | z | aa | ab | ac | ad | ae | af | ag | ah | ai | aj | ak | Course Type | Requisite | L-T-P | Credits | | | |
|-------------|--|-------|--|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|-------------|-----------|-------|---------|--|--|--|
| 18EN204 | DATA STRUCTURES | C01 | Student will be able to apply measures of efficiency to algorithms and compare various linear data structures like Stack, ADT, Queue, ADT, Linked lists. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C02 | Student will be able to analyze and compare linear data structures and analyze different searching and hashing techniques. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C03 | Student will be able to analyze and compare various non-linear data structures like Trees and Graphs. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C04 | Student will be able to analyze and compare various sorting algorithms, to select from a range of possible options, to provide justification for that selection, and to implement the algorithm in a particular context. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C05 | Student will be able to understand and execute lab experiments and develop a project about with his/her team members. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18EE202 | Complex Variables and Bessel's Mathematics | C01 | Construct the analytic function and evaluate the contour integral also represent analytic function as a series. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C02 | Evaluate the integrals involving Bessel and Legendre polynomials and Model the given phenomena as difference equation and solve it. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C03 | Use graphs and trees as tools to visualize network problems. | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C04 | Apply algorithms and theorems for construction of spanning trees. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C05 | Analyze electrostatic fields of different distributions using vector algebra. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C06 | Analyze electrostatic fields of different distributions and Maxwell's equation for Time-varying fields. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 18EE202 | Fields & Networks | C03 | Synthesize the single port network (R-L-R-C & L-C) using Foster & Cauer forms | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C04 | Analyze Low pass & High pass, Matched and Mismatched Filters | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C05 | Test the Electrical Network elements properties by designing filters | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C01 | Evaluate the performance of 3-phase induction motor. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C02 | Analyze different speed control and starting methods of 3-phase induction machine. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C03 | Evaluate the performance of Synchronous motor. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 18EE203 | AC MACHINES | C04 | Illustrate the performance of 3-phase synchronous motor and 3-phase induction motor. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C05 | Test the performance of AC Machines. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C01 | Design different types of feedback amplifiers and provide general solution for real time problems. | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C02 | Design different types of Oscillators and provide general solution for real time problems, and Design active filters using OPAMPs. | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C03 | Design other non-linear applications of OPAMPs such as precision rectifier, zero crossing detector, etc., Design the applications of 555 timer. | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C04 | Analyze different types of Power amplifiers | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 18EE205 | ANALOG ELECTRONIC CIRCUIT | C05 | Get a hands-on of various diodes and circuits studied during the course (Lab and TQ) in all the CD's | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C01 | Understand various generating stations. | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C02 | Understand the concepts of transmission line parameters, Constant, Mechanical Sag and Insulator's | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C03 | Analyze the performance of overhead transmission lines and underground cables. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C04 | Analyze substation layout and their design considerations | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C05 | Test and apply knowledge obtained from Construction, transmission & distribution using any software tool or hardware | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 18EE206 | Electrical Power Generation and Distribution | C01 | Understand the mathematical representation of various systems in the context of control engineering. | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C02 | Analysis of control systems in time domain & determination of stability | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C03 | Analysis of control systems in frequency domain & determination of stability. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | C04 | Modelling and analysis of control systems in state space domain. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Professor & Head
 Dept of EEE
 Green Field,
 Anna University,
 Guindy, DT
 Chennai-600 025

DR. CHAIRMAN

| Course Code | Course Title | CO-NO | Description of the Course Outcome | a | b | c | d | e | f | g | h | i | j | k | Course Type | Relevance | LTP | Credits | |
|-------------|--|-------|--|---|---|---|---|---|---|---|---|---|---|---|---|--|-------|---------|--|
| 11EE 303 | Power Electronics | C01 | Select appropriate diode for a given power converter | | | | | | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to enhance the basic skills required to analyse Power electronics circuits | 3-4-2 | 4 | |
| | | C02 | Evaluate the steady state performance of Basic DC-DC converters | | | 3 | | | | | | | | | | | | | |
| | | C03 | Evaluate the performance of Basic Switch-Mode PWM Inverter | | | 3 | | | | | | | | | | | | | |
| | | C04 | Understand and analyze the operation of Basic Phase controlled converters | | | | | | | | | | | 2 | | | | | |
| | | C05 | Test and evaluate basic power electronic converters by using Matlab software or hardware | | | | | | | | | | | 2 | | | | | |
| 11EE 302 | Power System Analysis | C01 | Apply the knowledge of Graph theory for modeling of power system network | | | | | | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to enhance the basic skills required to analyse Power system | 3-4-2 | 4 | |
| | | C02 | Apply mathematical methods for the solution of load flow problem | | | 2 | | | | | | | | | | | | | |
| | | C03 | Analysis of symmetrical faults and application of symmetrical components | | | 2 | | | | | | | | | | | | | |
| | | C04 | Analysis of power system with Unsymmetrical faults | | | 2 | | | | | | | | | | | | | |
| | | C05 | Analysis of Power system problems using simulation tools | | | 2 | | | | | | | | | | | | | |
| 11EE307 | Electric Drives | C01 | Understand the characteristics of various electric drives suitable for particular loads | | | | | | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to enhance the basic skills required to analyse the control of electrical machines | 3-4-2 | 4 | |
| | | C02 | Apply different static converters for speed control of DC Motor drives | | | 2 | | | | | | | | | | | | | |
| | | C03 | Differentiate between stator side control and rotor side control of 3-phase Induction Motor drives | | | 2 | | | | | | | | | | | | | |
| | | C04 | Analyze frequency control of Synchronous Motor drives for variable speed operation | | | 2 | | | | | | | | | | | | | |
| 11EE 402 | Power System Operation & Control | C06 | Identify suitable speed control method to control the speed of a particular electric drive experimentally | | | | | | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to enhance the basic skills required to operate and control the power | 3-4-2 | 4 | |
| | | C01 | Understand scheduling the best resources to have Economic Dispatch | | | | | | | | | | | | | | | | |
| | | C02 | Analyze the performance of Load Frequency Control | | | | | | | | | | | | | | | | |
| | | C03 | Analyze the performance of Automatic Voltage Regulator | | | | | | | | | | | | | | | | |
| | | C04 | Analyse power system stability | | | | | | | | | | | 2 | | | | | |
| 11-EE 305 | Power System Protection | C05 | Numerical methods to solve operation of power systems | | | | | | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to enhance the skills required to protect the power system networks | 3-4-2 | 4 | |
| | | C01 | To apply per unit system and to draw the reactance diagrams | | | | | | | | | | | | | | | | |
| | | C02 | To analyze the short circuit faults in a power system | | | | | | | | | | | | | | | | |
| | | C03 | To Evaluate the performance of different protective relays & Circuit breakers | | | | | | | | | | | | | | | | |
| | | C04 | To understand the concepts of lightning arresters and the neutral grounding | | | | | | | | | | | | | | | | |
| 11EC 311 | Microprocessors & Microcontrollers | C06 | Test and Analyze various power system protection concepts using MATLAB, Microcontroller 8051 and Instruction Set | | | | | | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to enhance the coding skills required for employability | 3-4-2 | 4 | |
| | | C01 | Understand the working of Microcontroller 8051 and Instruction Set | | | 1 | | | | | | | | | | | | | |
| | | C02 | Apply the knowledge of low level I/O peripherals to 8051 through programming | | | 2 | | | | | | | | | | | | | |
| | | C03 | Understand the working model of 8051 Processor | | | 1 | | | | | | | | | | | | | |
| | | C04 | Apply the programming concepts of 8051 | | | 2 | | | | | | | | | | | | | |
| 13-EE B34 | Operation of Reconstructed Power System | C05 | Apply the Knowledge of 8051 and working through experiments | | | | | | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to enhance the knowledge on reconstructed power systems | 3-4-0 | 3 | |
| | | C01 | Students are able to analyze the concept of regulation, depreciation, market structure, market architecture, and power system old & new. | | | | | | | | | | | | | | | | |
| | | C02 | Students can be able to understand Electricity sector structures, Different structure models, Bilateral & pool markets and LMP based markets. | | | | | | | | | | | | | | | | |
| | | C03 | Students can be able to analyze Power scheduling transactions and marginal costing, transmission costing, Congestion management, methods, market splitting, counter trading, effect of congestion on LMPs. | | | | | | | | | | | | | | | | |
| C04 | Students can be able to understand Ancillary Services and System Security in Deregulation. | | | | | | | | | | | | | | | | | | |

3
Prof. Cleverman

| Course Code | Course Title | Course Outcome | a | b | c | d | e | f | g | h | i | j | k | Course Type | Relevance | L-T-P | Credits |
|-------------|---|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|---------|
| 11-EE 338 | Distribution System Planning & Automation | CO1 | 1 | | | | 1 | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to enrich the knowledge on planning & automation of power systems | 3-0-0 | 3 |
| | | CO2 | 1 | | | | 1 | | | | | | | | | | |
| | | CO3 | 1 | | | | 1 | | | | | | | | | | |
| | | CO4 | 1 | | | | 1 | | | | | | | | | | |
| 11-EE 321 | Power Quality | CO1 | | | | | 1 | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to enrich the knowledge on enhancing quality of power | 3-0-0 | 3 |
| | | CO2 | | | | | 1 | | | | | | | | | | |
| | | CO3 | | | | | 1 | | | | | | | | | | |
| | | CO4 | | | | | 1 | | | | | | | | | | |
| 11-EE 432 | HVDC & FACTS | CO1 | 2 | | | | | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to establish the required knowledge on Transfer and improving quality of power | 3-0-0 | 3 |
| | | CO2 | 2 | | | | | | | | | | | | | | |
| | | CO3 | 2 | | | | | | | | | | | | | | |
| | | CO4 | 2 | | | | | | | | | | | | | | |
| 11-EE 331 | MACHINE MODELING AND ANALYSIS | CO1 | 1 | | | | 1 | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to establish the required knowledge on analysis of machines for design | 3-0-0 | 3 |
| | | CO2 | 2 | | | | 2 | | | | | | | | | | |
| | | CO3 | 2 | | | | 2 | | | | | | | | | | |
| | | CO4 | 2 | | | | 2 | | | | | | | | | | |
| 11-EE 395 | ADVANCED POWER ELECTRONICS | CO1 | 2 | | | | 2 | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to establish the required skill on analysis of power electronic circuits | 3-0-0 | 3 |
| | | CO2 | 2 | | | | 2 | | | | | | | | | | |
| | | CO3 | 1 | | | | 1 | | | | | | | | | | |
| | | CO4 | 3 | | | | 3 | | | | | | | | | | |
| 11-EE 339 | Switched Mode Power Supplies | CO1 | 3 | | | | 3 | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to establish the required skill on analysis of power electronic sector | 3-0-0 | 3 |
| | | CO2 | 3 | | | | 3 | | | | | | | | | | |
| | | CO3 | 2 | | | | 2 | | | | | | | | | | |
| | | CO4 | 3 | | | | 3 | | | | | | | | | | |
| 11-EE 332 | State Estimation & System Identification | CO1 | | | | | 1 | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to establish the required skill on estimation & identification of systems for employability in automation | 3-0-0 | 3 |
| | | CO2 | | | | | 1 | | | | | | | | | | |
| | | CO3 | | | | | 2 | | | | | | | | | | |
| | | CO4 | | | | | 2 | | | | | | | | | | |
| 11-EE 396 | Digital Control Systems | CO1 | 2 | | | | 2 | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to establish the required skill on digital systems for employability in automation | 3-0-0 | 3 |
| | | CO2 | 3 | | | | 3 | | | | | | | | | | |
| | | CO3 | 3 | | | | 3 | | | | | | | | | | |
| | | CO4 | 3 | | | | 3 | | | | | | | | | | |
| 11EE340 | Nonlinear Control Systems | CO1 | 1 | | | | 1 | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to establish the required skill on Non-Linear systems for employability in Control & Automation sector | 3-0-0 | 3 |
| | | CO2 | 2 | | | | 2 | | | | | | | | | | |
| | | CO3 | 2 | | | | 2 | | | | | | | | | | |
| | | CO4 | 1 | | | | 1 | | | | | | | | | | |
| 11-EE 422 | OPTIMAL CONTROL SYSTEMS | CO1 | 1 | | | | 1 | | | | | | | Course Retained from Earlier Curriculum | This Course is retained to establish the required skill on Optional control strategies for employability in Control & Automation sector | 3-0-0 | 3 |
| | | CO2 | 1 | | | | 1 | | | | | | | | | | |
| | | CO3 | 1 | | | | 1 | | | | | | | | | | |
| | | CO4 | 1 | | | | 1 | | | | | | | | | | |

Faculty of EEE
 M. L. University of Science & Technology
 Green Field,
 Sector-01,
 Gurgaon

K L UNIVERSITY

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 17.04.2012

BOARD OF STUDIES INVITATION

Electrical & Electronics Engineering Department Board of Studies meeting is scheduled on 18.04.2012 at 10.30 AM in E104. All the BOS Members are requested to make it convenient to attend the meeting.

Agenda of the Meeting:

1. To consider the proposed 2013-14 admitted batch B.Tech Curriculum and make recommendations to the Academic council KLU for approval the same.
2. To consider the proposed 2013-14 admitted batch M.Tech Curriculum and make recommendations to the Academic council KLU for approval the same.

Following are the members present:

- 1) Dr.M.Venu Gopal Rao, Professor & Head, EEE Department, K L University
- 2) Dr.P.V.Ramana Rao, Visiting Professor, EEE Department, AN University
- 3) Dr.M.Ramachandra Rao, Professor, EEE Department, K L University
- 4) Dr. P. Linga Reddy, Professor, EEE Department, K L University
- 5) Dr.A.Anand Kumar, Principal & Professor, EEE Department, K L University
- 6) Dr. G. Kesava Rao, Professor, EEE Department, K L University
- 7) Dr. G. R.K.Murthy, Professor, EEE Department, K L University
- 8) Prof. K. Subba Rao, Professor, EEE Department, K L University
- 9) Dr. M.Umavani, Professor, EEE Department, K L University
- 10) Mrs. S.V.N.L.Lalitha, Professor, EEE Department, K L University
- 11) Mr. R.B.R. Prakash, Associate Professor, EEE Department, K L University
- 12) Mrs. K Sarada, Associate Professor, EEE Department K L University

K L UNIVERSITY
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
MINUTES OF DEPARTMENT ACADEMIC COMMITTEE MEETING

The Department Academic Committee meeting was conducted in E.E.E HOD chamber on 15th September 2012 at 1:00 pm

Agenda:

1. To discuss the feedbacks received from stake holders on curriculum
2. To propose the curriculum for B.Tech 2013-14 admitting batch
3. Any other points with the permission of the DAC chairman

The following members were present:

| | | |
|----|-----------------------|---------------------|
| 1 | Dr.M.VENUGOPAL RAO | PROFESSOR & HOD |
| 2 | Dr.G.R.K.MURTHY | PROFESSOR |
| 3 | Dr.P.LINGA REDDY | PROFESSOR |
| 4 | Dr.M.RAMACHANDRA RAO | PROFESSOR |
| 5 | Dr.M.UMAVANI | PROFESSOR |
| 6 | Dr.S.LAKSHMI NARAYANA | PROFESSOR |
| 7 | Prof.K.SUBBARAO | PROFESSOR |
| 8 | Mrs.S.V.N.L.LALITHA | ASSOCIATE PROFESSOR |
| 9 | Mrs.K.SARADA | ASSOCIATE PROFESSOR |
| 10 | Mr.D.NARASIMHA RAO | ASSOCIATE PROFESSOR |
| 11 | Mr.B.KIRAN BABU | ASSISTANT PROFESSOR |
| 12 | P.SHIVA SANKAR | ASSISTANT PROFESSOR |


The following points were discussed, resolved and forwarded to Board of Studies for consideration:

1. Integration of software tools to the entire core courses of the B.Tech program and the research groups' heads are given the task of identify the respective software, course wise.
2. Upon discussing the feedback from students, Removal of Signal Analysis course and Added a new course Signal Processing.(Annexure 1)
3. Upon discussing the feedback from External Faculty, RAM & ROM Designing topics to be included in Digital Systems (Annexure 1)
4. Upon discussing the feedback from Alumni, modifications suggested for the syllabus of Solar Energy course.
5. Upon discussing the feedback from Alumni, Language & Reasoning course is replaced with Technical Communication Skills (Annexure 1)
6. Upon discussing the feedback from External Faculty & Course Coordinators, the following changes were recommended to BOS
 - a) Adding a topic of Frequency response analysis in Analog Electronics Circuit Design.(Annexure 1)
 - b) Adding of Smart Grid technologies as a professional core course.(Annexure 1)

- c) Adding of DC Machines & Transformers as a single course by merging DC machines & Transformer topics in AC Machines-1.(Annexure 1)
- d) Merging of Induction & Synchronous Motors of AC Machines-1 & 2 to be a single course in curriculum.(Annexure 1)
- e) Under Digital Systems Specialization, the syllabus of the Professional core courses was presented. (Annexure 1).

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|-----------------------|
| Computer Architecture |
| PLD's & FPGAs |
| VLSI DESIGN |
| Embedded Systems |
| DSP Processors |

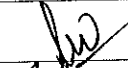
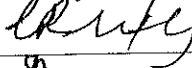

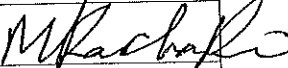
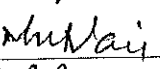
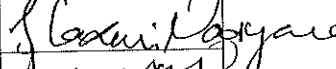
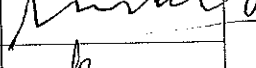

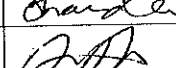
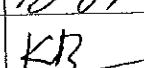
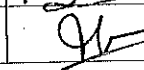

7. Upon considering above mentioned feedbacks, it is resolved to propose enclosed Program development documents and curriculum for B.Tech-Electrical & Electronics Engineering Program for 2013-14 for BOS approval (Annexure 1).


Dr. M. Venkopal Rao
(Head of the Department)

Dept of EEE
K L University
Green Fields, Vaddeswaram.

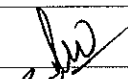
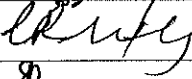

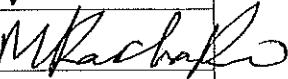
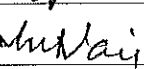
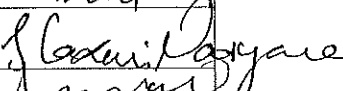
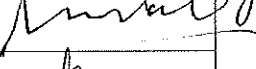

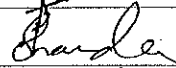
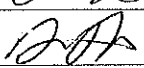
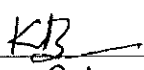

K L University
Department of ELECTRICAL & ELECTRONICS Engineering
Department Academic Committee (DAC)

The following members attended the meeting on 15th September 2012 at 1:00 pm:

| S.No | Name of the member | Designation | Signature |
|------|-----------------------|---------------------|---|
| 1 | Dr.M.Venu Gopal Rao | Professor, HOD |  |
| 2 | Dr.G.R.K.Murthy | Professor |  |
| 3 | Dr.P.Lingareddy | Professor |  |
| 4 | Dr.M.Ramachandra Rao | Professor |  |
| 5 | Dr.M.Umavani | Professor |  |
| 6 | Dr.S.Lakshmi Narayana | Professor |  |
| 7 | Prof.K.Subbarao | Professor |  |
| 8 | Mrs.S.V.N.L.Lalitha | Associate Professor |  |
| 9 | Mrs.K.Sarada | Associate Professor |  |
| 10 | Mr.D.Narasimha Rao | Associate Professor |  |
| 11 | Mr.B.Kiranbabu | Assistant Professor |  |
| 12 | P.Shiva Sankar | Assistant Professor |  |

K L University
Department of ELECTRICAL & ELECTRONICS Engineering
Department Academic Committee (DAC)

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| 4 | Dr.M.Ramachandra Rao | Professor |  |
| 5 | Dr.M.Umavani | Professor |  |
| 6 | Dr.S.Lakshmi Narayana | Professor |  |
| 7 | Prof.K.Subbarao | Professor |  |
| 8 | Mrs.S.V.N.L.Lalitha | Associate Professor |  |
| 9 | Mrs.K.Sarada | Associate Professor |  |
| 10 | Mr.D.Narasimha Rao | Associate Professor |  |
| 11 | Mr.B.Kiranbabu | Assistant Professor |  |
| 12 | P.Shiva Sankar | Assistant Professor |  |

K L UNIVERSITY
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
MINUTES OF DEPARTMENT ACADEMIC COMMITTEE MEETING

The Department Academic Committee meeting was conducted in HOD Chamber, EEE Department, on 15th July 2011 at 12:30 pm

Agenda:

1. To discuss the feedbacks received from stake holders on curriculum
2. To propose the curriculum for B.Tech 2012-13 admitting batch
3. Any other points with the permission of the DAC chairman

The following members were present:

| | |
|--------------------------|-------------------------------|
| 1. Dr.M.Venu Gopal Rao | Head of the Department |
| 2. Dr.G.R.K.Murthy | Professor |
| 3. Dr.P.LINGA REDDY | Professor |
| 4. Dr.M.RAMACHANDRA RAO | Professor |
| 5. Dr.M.UMAVANI | Professor Research Group Head |
| 6. Dr.S.LAKSHMI NARAYANA | Professor Research Group Head |
| 7. Prof.K.SUBBARAO | Professor |
| 8. Mrs.S.V.N.L.LALITHA | Associate Professor |

The following points were discussed, resolved and recommended to Board of studies for considerations:

1. Up on feedback from students & Alumni, Dr.M.Venugopal asked the DAC members to verify and propose any modifications required for the Computer based Subjects like DBMS & ORACLE for campus related activities
2. Up on considerations from Alumni Dr.M.Venugopal to verify and propose modifications for the Data Structures subject to be included in curriculum for placements
3. Up on feedback from students, it is resolved to request BOS to introduce Filter Designing and network synthesis Topics in Network Theory subject
4. HOD announced that the department is planning to offer two M.Tech specializations for the next academic year.
5. HOD requested Dr.M.UMAVANI and Power Electronics Group to study the feasibility and propose the structure of M.Tech – Power Electronics & Drives by Next meeting.
6. HOD requested Dr.P.LINGA REDDY and Power Systems Group to study the feasibility and propose the structure of M.Tech – Power Systems by Next meeting.


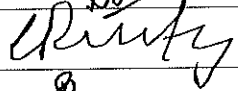

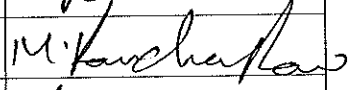
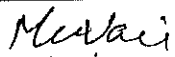
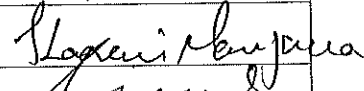
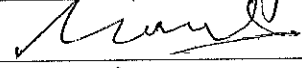



Dr.M.Venu Gopal Rao

(Head of the Department)

K L University
Department of ELECTRICAL & ELECTRONICS Engineering
Department Academic Committee (DAC)

The following members attended the meeting on 15th July 2011 at 12:30 pm:

| S.No | Name of the member | Designation | Signature |
|------|-----------------------|---------------------|--|
| 1 | Dr.M.Venu Gopal Rao | Professor, HOD |  |
| 2 | Dr.G.R.K.Murthy | Professor |  |
| 3 | Dr.P.LINGA REDDY | Professor |  |
| 4 | Dr.M.RAMACHANDRA RAO | Professor |  |
| 5 | Dr.M.UMAVANI | Professor |  |
| 6 | Dr.S.LAKSHMI NARAYANA | Professor |  |
| 7 | Prof.K.SUBBARAO | Professor |  |
| 8 | Mrs.S.V.N.L.LALITHA | Associate Professor |  |