

LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

Minutes of BOS Online meeting Held on 2nd July 2020.
FOR UG Program

Members Present:

External BoS Members

Dr. S.Sivanaga Raju

Er. Ch. Sri Prakash

Mr.Y.Naresh

Internal BoS Members

Dr. M.S.Giridhar

Dr. K.Harinadha Reddy

Dr. M.Uma Vani

Dr. P. Sobha Rani

Dr.K.R.L.Prasad

Dr.G.Nageswara Rao

Dr.J.Sivavara Prasad

Signature

M.S.Giridhar

K.Harinadha Reddy

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P.Sobha Rani

K.R.L.Prasad

G.Nageswara Rao

J.Sivavara Prasad

1. Finalization of course structure for UG Program (EEE) under R-20 regulation- Suggested/Approved
2. Course content (syllabus) of semesters I-IV for UG under R20 Regulation along with Course Outcomes (COs)- Discussed/Suggested
3. List of Core & Elective courses, Open Electives of R20 course structure- Suggested/Approved
4. Stake holder's feedback-Suggested/Approved
5. Course content and evaluation procedure of integrated course Discussed/Suggested

Note: Detailed resolutions are enclosed as Annexure-I.



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

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New Delhi & Certified by ISO 9001:2015, [http:// www.lbrce.ac.in](http://www.lbrce.ac.in)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
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Minutes of meeting held on 02/07/2020

B.Tech EEE

After thorough discussions and deliberations, following resolutions are arrived in the proposed **R20 Course Structure**:

I. Suggestions in course structure:

1. It is suggested to have two credits for “Universal Human Values” course (II semester) instead of three credits.
2. It is suggested to have two credits for “Programming for Problem Solving Using C Lab” (II Semester) instead of one credit.
3. It is suggested to have two credits for “Professional Communication Lab” (II semester) instead of one credit by keeping one credit for “Computer Aided Engineering Drawing”.
4. It is recommended to swap “Electrical Measurements” (III semester) course with “Electric and Magnetic Fields” (IV semester) course.
5. It is suggested to change “Electrical Circuits & Measurements lab” as “Electrical Circuits & Simulation lab” in III Semester.
6. It is suggested to combine Control systems lab with Measurements lab and new lab title is “Control Systems and Measurements Lab” in IV semester.

II. Changes in course content are suggested for the following courses:

1. “Electrical Circuits-II”, ‘Millman’s theorem’ concept may be introduced in Theorems.
2. “Electrical Workshop lab”, course content may be reframed as follows:
 - ‘Study of tools and meters’ experiment may be included as first experiment
 - Introduce one experiment on ‘starter circuit with NO and NC concept
3. “Power Systems-I”, the content may be reframed as follows:
 - In Unit IV, ‘micro grid’, ‘cogeneration’, ‘distributed generation’ concepts are to be removed and unit IV & V may be combined and treated as unit III

- Unit III 'Economics of power generation' may be treated as unit V.
 - In Unit IV, 'Substation' concepts may be introduced.
4. "Electric and Magnetic Fields", the following changes are to be made:
- Unit II, mention 'Laplace in one dimension/ two dimensions'.
 - Unit III, include the concept 'Application of Biot Savart Law, Ampere Law'
 - Unit IV, remove the concepts 'magnetic circuits, inductances and mutual inductances'
 - Unit V, remove 'simple problems' topic.
5. "Electrical Measurements", the following changes are to be made:
- Unit I: remove the concept of 'static and dynamic characteristics'
 - Unit V: remove the concept of 'application to non electrical quantities'
 - "Instrumentation" may be selected as program elective.
6. "Electrical Machines-I", the content may be reframed as follows:
- 'D.C machines' concept (units I,II,III) may be made as two units
 - Unit IV may be splitted as two units
 - 'Auto transformers' concept in unit-V may be combined with 'single phase transformer'
7. "Control Systems", remove the concept of 'Canonical State space models' and 'eigen values and stability analysis' in unit V.
- Unit-I must rewritten in proper order like 'open loop, closed loop, Industrial Control examples, Feedback Control - Feed-Back Characteristics'
8. "Basic Electrical Engineering", unit V is to be reframed by keeping working principle and e.m.f equation of D.C.machines, transformer, induction motor only. Only O.C and S.C test on single phase transformer is to be included in chapter 1.
9. "Basic Electrical Engineering Lab", the experiments may be reframed as:
- First experiment may be removed.
 - Experiment 4 title may be changed as 'verification of resonant frequency, band width and Q factor for an RLC series and parallel network'
 - Experiments 10, 11 may be changed based on the theory content

- Experiment 12 must be 'to perform OC and SC test on 1-phase transformer'.
10. "Basic Electrical and Electronics Engineering", the content may be reframed as follows:
- Unit I: remove 'numerical problems' topic
 - Unit III: elementary concepts of D.C machines only to be introduced
 - Unit V: remove 'Digital Logic Circuits' chapter.
11. "Basic Electrical and Electronics Engineering lab", sixth experiment in cycle-II are to be replaced with other experiments relevant to theory content.

III. Other Suggestions:

1. Practical aspects relevant to industry are to be covered while teaching theory courses.


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Dr. S.Sivanaga Raju

Dr Y.S.Kishore Babu

Mr T.Sesha Sai Babu

Internal BoS Members

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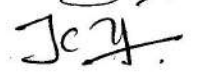
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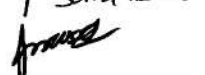
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1. Finalization of course structure for PG Program (PED) under R20 regulation- Suggested/Approved
2. Course content (syllabus) of semesters I-II for PG under R20 Regulation along with Course Outcomes (COs)- Discussed/Suggested
3. List of Core & Elective courses, Open Electives of R20 course structure- Suggested/Approved
4. Stake holder's feedback-Suggested/Approved
5. Research and consultancy works to be taken up by EEE Department - Discussed/Suggested

Note: Detailed resolutions are enclosed as Annexure-II.



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M.Tech (PED)

- The course structure of **M.Tech (Power Electronics & Drives)** program of **R20-regulation** is approved as per AICTE model curriculum with the following program core, program elective and open elective courses:

Program Core 1: Analysis Of Power Converters

Program Core 2: Control of Motor Drives-I

Program Electives-I

1. Power Quality
2. FACTS
3. HVDC Systems

Program Electives-II

1. Modern Control Theory
2. Artificial Intelligent Techniques & Applications
3. Meta Heuristics Optimization Techniques

Program Core 3: Switched Mode Power Converters

Program Core 4: Control of Motor Drives-II

Program Electives-III

1. Machine Modelling and Analysis
2. Emerging Trends in Power Converter Technologies
3. Micro and Smart Grid Technologies

Program Electives- IV

1. Hybrid Electrical Vehicles
2. Wind Energy Conversion Technologies
3. Electro Magnetic Interference and Compatibility

Program Electives-V

1. DSP & FPGA Controllers
2. Advanced Microprocessors & Microcontrollers
3. Advanced Power Semiconductor Devices & their protection

Open Electives

1. Industrial Safety
2. Operations Research

- Add the Modular Multilevel Converter (MMC) in the last unit of “**Analysis of Power Converters**” course.
- Add the Bimal K.Bose book in the reference list of “**Control of Motor Drives-I**” course.
- Write the relevant topics as prerequisite instead of mentioning complete course titles.
- Remove underscores in the second unit of “**Power Quality**” Course.
- In the 5th unit of “**Power Quality**” Course, remove the wiring and grounding topics or add the grounding issues related to Power Quality problems.
- Remove the applications topic in the 3rd unit of “**FACTS**” course.
- Add 12 pulse converters in the 2nd unit of “**HVDC**” course.
- Modify the Conversion in the unit titles of 1 and 2 with Converters in the course of “**Switched Mode Power Conversion**”.
- Add soft starters in any of the drive course.
- Add v/f control of induction motor drive experiment in “**Simulation of Power Converters & Drives- I Lab**” course.
- Add SVPWM technique for controlling induction motor drive as an experiment in addition to SVPWM technique in “**Simulation of Power Converters & Drives- I Lab**” course.
- Make unit 5 as DFIG in the “**Wind Energy Conversion Technologies**” course and add on shore and off shore related topics.


HEAD OF THE DEPARTMENT