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Geethanjali

Geethanjali College of Engineering and Technology

AUTONOMOUS

(Accredited by NBA, Approved by AICTE, New Delhi)
Sy.No. 33 & 34, Cheeryal (V), Keesara (M), Medchal District. - 501 301.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Board of Studies meeting

Minutes of the meeting of the Board of Studies (BoS) meeting held on 27th June 2019.

Members Present

1. **Dr. B. V. Sanker Ram**
2. **Dr. P. V. Rajgopal**
3. **Dr. Radhika Dora**
4. **Dr. M. Aruna Bharathi**
5. **Dr. P. Anil Kumar**
6. **Dr. B. Madhuri**
7. **Mr. G. Srikanth**

I. Review of AR 18 courses of third and final years

1. Summary and discussion of third year courses.
2. Discussion of the course Internship (18EE3111) – BoS members suggested that institute should have possible MoUs with small scale industries so that students will be able to do internships in these industries.
3. The title of the course 'Management Fundamental' (18MB3201) has to be reviewed. The suggested title is 'Concepts of Management'.
4. Discussion on credits of all subjects – The members reiterated that Power System II (18EE3101), Electrical Machines II (18EE3102) and Control Systems (18EE3103) should have tutorials included in their credits
5. The EEE students should be exposed to courses like ANN and Fuzzy logic which are the current need.
6. 'VLSI Technology' (18EC4207) may be included as an open elective

II. Discussion of Syllabus of courses

1. Review textbooks of all courses – Only two textbooks should be prescribed.
2. All labs should include 'suitable software' instead of specifics.
3. Electrical Machines II – Textbook by Fitzgerald may be included in references

4. Control Systems – The design concepts may be excluded from the syllabus. Control Systems textbook by I.J. Nagrath and M. Gopal should be prescribed as first text book and include textbook by Kuo and Ogata in reference. The JNTU-H's control system syllabus might be incorporated.
5. Special Machines – Concepts of AC and DC servomotors might be included in the syllabus. Textbook by E.G. Janardhan and text book by Smith should be included as prescribed textbooks.
6. Energy conservation and auditing – The training manual may be included in reference. The syllabus should be changed after identification of an appropriate textbook encompassing the entire syllabus
7. Smart grid/Micro grid – The syllabus may be framed by taking suggestions from Dr.M. Vinod Kumar from NIT Warangal.
8. Computer Methods in Power Ssystems – The textbooks suggested have to be reviewed and book by I.J.Nagrath and D.Kothari and book by Stag should be included as textbook.
9. Electrical estimation and costing – The title of the course may be reconsidered and the word 'design' may be included in the title. The length of the course and the titles of the units may be reconsidered. Fifth unit should be removed and course should be redesigned.
10. Industrial electrical systems – The third unit should be restructured to remove overlap with UEE. Textbooks by Raina and Uppal should be included as textbook and the titles of the fourth and fifth unit should be changed
11. Power Systems – II Lab –The simulation experiments should be reviewed.
12. Power Electronics – The concept of commutation should be included in the choppers unit and advanced topics should be included.
13. Power System Operation and Control – The JNTU-H's R16 syllabus should be included and Elgerd should be included as textbook.
14. Control System Design – The fifth unit should include only applications relevant to electrical engineering
15. Robotics – The syllabus should be verified with the textbooks.
16. Instrumentation and Measurement Techniques and Electronic Measuring Instruments - Check for overlap
17. Switched Mode Power Supplies should be included with other advanced topics in future.
18. Electrical Machine Design – M.G.Say should be included in reference and textbook by Sawhney should be first text book.
19. High voltage Engineering – The JNTUH's R16 syllabus should be included and the textbooks should be reviewed
20. Flexible AC Transmission Systems - The JNTU H's R16 syllabus should be included and include textbook by an Indian author
21. Utilization of Electrical Energy- The first unit should be checked and the units should be renamed.
22. HVDC Transmission – Textbook by Arillaga should be included as textbook if available
23. Textbooks for Reliability Engineering should be reviewed.

24. The syllabus for Energy conservation and management should be reduced.
25. BOS members **strongly recommend** that Linear System Analysis, Electrical Machine design and Power System Dynamics and control be removed from the curriculum. They also recommend that advanced courses like Power Quality, ANN and Fuzzy systems, IoT and Machine learning should be included.
26. Under open electives, syllabus of Energy Conservation and Management need to be modified. The syllabus of other open elective courses (Industrial Safety and Hazards and Micro Electro Mechanical Systems) remains unchanged.
27. No modification required in the syllabus of open electives (Industrial Safety and Power from Renewable Energy Sources) offered to M. Tech CSE
28. The panel of Examiners list is approved.