



ADITYA ENGINEERING COLLEGE

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Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

Department of Electrical and Electronics Engineering

Date: 20-04-2022

Minutes of the VIII meeting of BOS scheduled on 20-04-2022

The VIII meeting of the BOS of EEE was held on 20/04/2022 at 9.30 AM, Ajivika Conference Hall. Dr. V. Srinivasa Rao, Chairperson presided over the meeting.

Agenda 8.1: Welcome address by Chairperson.

Dr. V. Srinivasa Rao, BOS Chairperson invited the distinguished members of BOS to the VIII BOS Meeting.

Agenda 8.2: Ratification of minutes of the previous Board of Studies meeting.

The BOS members have ratified the points discussed in the previous Board of Studies meeting held on 28/09/2021.

Agenda 8.3.: Discussion on proposed AR20B.Tech (EEE) V, VI, VII and VIII semesters syllabus and ratification of the same.

The BOS members approved the AR20B.Tech (EEE) V, VI, VII and VIII semesters syllabus after incorporating the following changes in the proposed syllabi.

- Suggested that in Power Electronics course the Unit-IV: Basics of choppers can be removed. Dual converter to be added.
- Suggested that in Electrical Measurements and Instrumentation lab 10th experiment in the compulsory experiments is swapped with 5th experiment in the augmented list of experiments.
- Suggested that in Industrial Electrical systems in Unit V PLC is replaced by max DNA.
- Suggested that in Neural Networks and Fuzzy Logic in Unit IV Kolmogorov Theorem Learning Difficulties and Improvements and Associative memories is replaced with Bidirectional associative memory, architecture of discrete Hopfield network and In Unit V Neural network applications is removed.
- Suggested to remove fuel cell and ocean energy from non-conventional energy resources.
- Suggested to include PMSM drives basic operation in power converters and drives.
- Suggested to include k-factors and non-three phase transmission lines in electrical distribution systems.
- Suggested to remove power system stabilizers and calculation of damping torque from power system analysis.
- Suggested to include these four experiments in power system and simulation lab:
 - i. Performance of long transmission line without compensation
 - ii. Performance of long transmission line with shunt compensation

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- iii. Analyze the Ferranti effect on long transmission line
- iv. Transient Stability analysis of single machine connected to an infinite bus (SMIB) using equal area criterion.
- Suggested to include the experiment Determination of the characteristics of a LVDT in electrical measurements and instrumentation lab.

Agenda 8.4: Discussion on proposed AR20 Honors and Minor Degree Courses syllabus and ratification of the same.

The BOS Members ratified the syllabus of Honors and Minor Degree courses of AR20 V, VI and VII semesters.

Agenda 8.5: Discussion on value added courses offered for the students and ratification of the same.

Members of BOS ratified the following value- added courses identified for the students to be offered and suggested to include topics related to thrust areas.

Agenda 8.6: Discussion on the new courses offered in the B. Tech (EEE) program and ratification of the same.

Members of BOS noted the percentage of new courses offered for the academic year 2021-2022 in the B. Tech (EEE) is 12.63% and ratified the same. The list of new courses is enclosed as Annexure-I.

Agenda 8.7: Discussion on the percentage of the syllabus revision has done in the B. Tech (EEE) & M. Tech (PED) programs and ratification of the same.

The syllabus revisions done in B. Tech (EEE) & M. Tech (PED) programs based on the Stakeholders feedback on curriculum. The BOS members have approved all the percentage of syllabus revision for the academic year 2021-2022 in B. Tech (EEE) is 38.28% and M. Tech (PED) is 6.12%. The list of courses revised during is enclosed as Annexure-II.

Agenda 8.8: Discussion on the courses having focus on employability/ entrepreneurship/ skill development in the program of B. Tech (EEE) & M. Tech (PED) programs and ratification of the same.

The members of BOS ratified the courses having focus on employability/entrepreneurship/skill development in the B. Tech (EEE) & M. Tech (PED) programs.

Agenda 8.9: Discussion on the B. Tech (EEE) & M. Tech (PED) programs in which Choice Based Credit System (CBCS)/elective course system is being implemented and ratification of the same.

Members of BOS ratified the choice based credit systems (CBCS)/elective course system that is being implemented in B. Tech (EEE) & M. Tech (PED) programs.


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Agenda 8.10: Analysis of Stakeholder's Feedback on Curriculum

The BOS Chairperson presented the analysis report of Stakeholder's feedback on curriculum. The BOS members noted the same and the Action Taken Report is enclosed as Annexure-III.

Agenda 8.11: Analysis of Results of the odd semester of the academic year 2021-22.

The BOS Chairperson presented the odd semesters pass percentage for the A. Y. 2021-2022. The BOS members noted the same.

Agenda 8.12: Analysis of students feedback in the odd semester of the academic year 2021-22

BOS Chairperson expressed that the student feedback in academic year 2021-2022 for odd semester. The BOS members noted the same

Agenda 8.13: Any other items with the approval of Chairperson.

- Dr. M. Nageswara Rao suggested to prescribe relevant books for the new courses.
- Mr. M. Veera Suresh suggested to have relevant weblinks for all the courses.
- Dr. K. Siva Kumar suggested to have remedial classes for the poor performers.
- Mr. N. Siva Prasad suggested to frame syllabus with more emphasis on present practical requirement in the industry.
- Mr. N. Siva Prasad suggested to use MAX DNA in place of PLC as per the present requirement of the industry.


Agenda 8.14: Scheduling of next Board of Studies meeting.

- The next BOS meeting is tentatively scheduled in the month of December 2022.

Agenda 8.15: Vote of Thanks

Dr. V. Srinivasa Rao, BOS Chairperson presented the Vote of thanks.


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BOS Chairperson
Head of the Department
Dept. Of Electrical & Electronics Engineering
Aditya Engineering College (AG)



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Annexure-I

List of New Courses in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (EEE)	III	201SO3L02	Design of Electrical Circuits using Engineering Software Tools
2	B. Tech (EEE)	IV	201SC4L14	IoT Applications of Electrical Engineering
3	B. Tech (EEE)	V	191EE5T12	Electrical Measurements and Instrumentation
4	B. Tech (EEE)	V	191EE5O02	Electrical Materials
5	B. Tech (EEE)	V	191EE5O03	Basic Electrical Measurements
6	B. Tech (EEE)	V	191PR5P02	Socially Relevant Project
7	B. Tech (EEE)	VI	191EE6E05	Advanced Power Electronics Converters
8	B. Tech (EEE)	VI	191EE6E11	High Voltage Transmission
9	B. Tech (EEE)	VI	191EE6E12	Switched mode power Converters
10	B. Tech (EEE)	VI	191EE6E09	Control Systems Design
11	B. Tech (EEE)	VI	191EE6E10	Electrical Safety
12	B. Tech (EEE)	VI	191EE6L06	Electrical Measurements & Instrumentation Lab


BOS Chairperson
Head of The Department
Dept. Of Electrical & Electronics Engineering
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Annexure-II

List of Courses Revised in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (EEE)	III	201EE3T01	Analog Electronic Circuits
2	B. Tech (EEE)	III	201EE3L01	DC Machines and transformers
3	B. Tech (EEE)	VI	191EE6T13	Microprocessor & Interfacing
4	M. Tech (PED)	I	192PD1E03	Programmable Logic Controllers & Applications
5	M. Tech (PED)	I	192PD1E04	Artificial Intelligence Techniques
6	M. Tech (PED)	II	192PD2E09	Digital Control Systems
7	M. Tech (PED)	II	192PD2E10	Advanced Digital Signal Processing

BOS Chairperson

Head of The Department
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Annexure-III

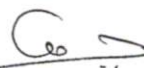
Action Taken Report on Stakeholders Feedback in the Academic Year 2021-22

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1.	8.10	As electrical vehicles are a trendy topic in the coming years. Students are encouraged to know about the Electric Vehicles.	Considering Employer Feedback, a value added course named "Electric Vehicles design-simulation" is included in the curriculum.
2.	7.6	The importance is step up and step down of voltage and current is gaining importance in industry sector. The concept of instrumentation transformers (CT, PT) are to be included in the power systems of AR20	The concept of instrumentation transformers will be added in power systems subject.
3.	8.13	The course "MAX DNA" should be considered in the place id "PLC" for the industry oriented jobs	Based on the suggestions given by the employer, steps will be taken to replace the "PLC" course with "MAX DNA".
4.	8.3	For students to work in core sectors, they must have practical knowledge of electrical programming ideas.	Power electronic programming topics will be thoroughly analysed and efficiently demonstrated through PPTs, online/offline classes, and video presentation.
5.	7.4	Course structure of some subjects are to be modified in such a way student can gain more knowledge.	Taking Alumni feedback the courses named "Microprocessor and interfacing, Power system-II, Power Electronics and Energy Audit Conversation and Management" are modified.
6.	7.4	The course content of "Power quality and FACTS" in AR19 is vast and is to be reduced.	Necessary arrangement are to be taken in order to reduce the course content of "Power quality and FACTS" in AR19
7.	8.5	The courses of "Applications of Artificial intelligence to Electrical Engineering and Python Programming" are to be offered to the students that shares the knowledge of coding in electrical applications	the following courses "Applications of Artificial intelligence to Electrical Engineering and Python Programming" will be considered as a value added courses for the students.

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8.	7.13	The software and hardware knowledge must be balanced by introducing more courses related to simulation and demo oriented expert talks.	New courses will be introduced as open electives that balances the software and hardware
9.	7.15	Web links are to be included in the course syllabus	Considering Teacher Feedback, web links are provided at the end of every course in the AR19 and AR20 curriculum.
10.	7.4	As stabilizing power system is an important topic, it is recommended that the concept of "power system stabilizer" should be included in the power system course	Based on the suggestions given by the faculty, necessary arrangements will be made to include the concepts of power system stabilizers in the power systems course
11.	8.13	Remedial classes should be conducted for poor performers	Steps are to be taken to conduct remedial classes for poor performers
12.	8.3	Students should know the basics of all the fundamentals of power electrical devices.	Effective demonstration of fundamentals and basics are thought using PPT, placards, animations and video demonstrations.
13.	8.10	Increase industrial training practically	Since internships are now required, students must complete industry training and complete a project as part of their internship.
14.	7.12	Value added courses are to be conducted.	Necessary arrangements will be taken to conduct the value added courses like "battery management system and machine learning".
15.	8.3	As it is difficult to understand the concepts of "Neural Networks and Fuzzy logic" it is suggested to remove it from the curriculum	The idea of Neural networks and fuzzy logic and its applications will be removed from the curriculum.
16.	7.10	The addition of a new lab course can enhance students communication skills and their command of the English language.	Considering student/parent feedback, necessary measures will be taken to enhance the communication skills among the students.


BOS Chairperson
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