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

Program Name : B.Tech. in Electrical and Electronics Engineering

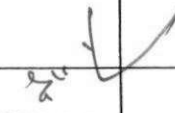| S.No	Semester	Course Code	Course Name	% of content revised for the existing year
			Syllabus Revision for the Academic Year 2018-2019	
1	I	171HS1T01	English - I	0
2	I	171BS1T01	Mathematics - I	0
3	I	171HS1T02	Environmental Studies	0
4	I	171BS1T05	Applied Chemistry	0
5	I	171ES1T02	Engineering Mechanics	0
6	I	171ES1T01	Computer Programming	0
7	I	171HS1L01	English Communication Skills Lab - I	0
8	I	171BS1L03	Applied Chemistry Lab	0
9	I	171ES1L01	Computer Programming Lab	0
10	II	171HS2T03	English - II	0
11	II	171BS2T02	Mathematics - II	0
12	II	171BS2T06	Mathematics - III	0
13	II	171BS2T04	Applied Physics	0
14	II	171ES2T03	Engineering Drawing	0
15	II	171EE2T01	Electrical Circuit Analysis - I	0
16	II	171HS2L02	English Communication Skills Lab - I	0
17	II	171BS2L04	Applied Physics Lab	0
18	II	171ES2L02	Engineering Workshop and IT Workshop	0

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S.No	Semester	Course Code	Course Name	% of content revised for the existing year
19	III	171EE3T02	Electrical Circuit Analysis - II	40
20	III	171EE3T03	Electrical Machines – I	10
21	III	171EE3T04	Basic Electronics Devices and Circuits	10
22	III	171EE3T05	Electromagnetic Fields	5
23	III	171ES3T10	Thermal and Hydro Prime Movers	42
24	III	171HS3T04	Managerial Economics and Financial Analysis	5
25	III	171ES3L04	Thermal and Hydro Prime Movers Lab	5
26	III	171EE3L01	Electrical Circuits Lab	8
27	III	171HS3A09	Professional Ethics and Human Values	15
28	III	171HS3A10	Employability Skills - I	100
29	IV	171EE4T06	Electrical Measurements	15
30	IV	171EE4T07	Electrical Machines - II	5
31	IV	171ES4T24	Digital Circuits and Logic Design	5
32	IV	171EE4T08	Control Systems	15
33	IV	171EE4T09	Power Systems – I	15
34	IV	171HS4T05	Management Science	15
35	IV	171EE4L02	Electronic Devices and Circuits Lab	10
36	IV	171EE4L03	Electrical Machines - I Lab	35
37	IV	171HS4A11	Employability Skills - II	100
38	V	R1631021	Power Systems-II	0
39	V	R1631022	Renewable Energy Sources	0
40	V	R1631023	Signals and Systems	0

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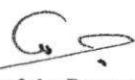| S.No	Semester	Course Code	Course Name	% of content revised for the existing year
41	V	R1631024	Pulse & Digital Circuits	25
42	V	R1631025	Power Electronics	30
43	V	R1631026	Electrical Machines-II Laboratory	30
44	V	R1631027	Control Systems Laboratory	0
45	V	R1631028	Electrical Measurements Laboratory	0
46	V	R1631029	IPR & Patents	0
47	VI	R1632021	Power Electronic Controllers & Drives	5
48	VI	R1632022	Power System Analysis	15
49	VI	R1632023	Micro Processors and Micro controllers	40
50	VI	R1632024	Data Structures	100
51	VI	R163202A	Unix and Shell Programming	0
52	VI	R163204A	OOPS Through JAVA	0
53	VI	R163202B	VLSI Design	0
54	VI	R163202D	Robotics	100
55	VI	R163202E	Neural Networks &Fuzzy Logic	100
56	VI	R163202F	Energy Audit and Conservation& Management	0
57	VI	R1632026	Power Electronics Laboratory	40
58	VI	R1632027	Micro Processors and Micro controllers Laboratory	0
59	VI	R1632028	Data Structures Laboratory	100
60	VI	R1632029	Professional Ethics & Human Values	100
61	VII	RT41021	Renewable Energy Sources and Systems	0
62	VII	RT41022	HVAC & DC Transmission	0

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S.No	Semester	Course Code	Course Name	% of content revised for the existing year
64	VII	RT41024	Energy Audit, Conservation and Management	0
65	VII	RT41025	Instrumentation	0
66	VII	RT41026	Non Conventional Sources of Energy	0
67	VII	RT41027	Optimization Techniques	0
68	VII	RT41028	VLSI Design	0
69	VII	RT41029	Electrical Distribution Systems	0
70	VII	RT41030	Optimization Techniques	0
71	VII	RT4102L	Microprocessors & Microcontrollers Lab	0
72	VII	RT4102M	Electrical Simulation Lab	0
73	VII	RT4102N	Power systems lab	0
74	VIII	RT42021	Digital Control Systems	0
75	VIII	RT42022A	Advanced Control Systems	0
76	VIII	RT42022B	Extra High Voltage Transmission	0
77	VIII	RT42022C	Special Electrical Machines	0
78	VIII	RT42023A	Electric Power Quality	0
79	VIII	RT42023B	Digital Signal Processing	0
80	VIII	RT42023C	FACTS: Flexible Alternating Current Transmission Syste	0
81	VIII	RT42024A	OOPS Through Java	0
82	VIII	RT42024B	UNIX and Shell Programming	0
83	VIII	RT42024C	AI Techniques	0
84	VIII	RT42024D	Power System Reforms	0
85	VIII	RT42024E	Systems Engineering	0

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S.No	Semester	Course Code	Course Name	% of content revised for the existing year
Total number of courses in the academic year 2018-2019				= 86
Number of courses having revision in syllabus content >/= 20% in the academic year 2018-2019				= 15
Percentage of syllabus revision carried out in the academic year 2018-2019 = (15/86)*100				= 17.44%

Program Coordinator

Head of the Department

Head of The Department
Dept: Of Electrical & Electronics Engineering
Aditya Engineering College (A9)

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Department of Electrical and Electronics Engineering

Date: 12-11-2018

Minutes of the III meeting of BOS scheduled on 10-11-2018

The III meeting of the BOS of EEE was held on 10-11-2018 at 10.00 AM, Ajivika Conference Hall, Bill Gates Bhavan. Dr. V. Srinivasa Rao, Chairperson presided over the meeting.

Agenda 3.1: Welcome address by Chairperson

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

Agenda 3.2: 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 12/11/2017.

Agenda 3.3: Discussion on proposed AR17 B. Tech (EEE) Program –VI, VII & VIII semesters syllabus and ratification of the same

The BOS members have discussed about course content in VI, VII & VIII semesters Electrical and Electronics Engineering Department subjects, suggested some minor modifications and Ratified

The following is the approved list

VI Semester

1. Power Electronics Controllers & Drives (171EE6T14)
2. Power System Analysis (171EE6T15)
3. Electrical Distribution System (171EE6E05)
4. Distributed Generation & Microgrid (171EE6E06)
5. Advanced Control Systems (171EE6E07)
6. PLC &Applications (171EE6E08)
7. Instrumentation (171EE6E09)
8. Power Electronics Lab (171EE6L08)

VII Semester

1. Utilisation of Electrical Energy (171EE7T18)
2. Power Systems Operation & Control (171EE7T20)
3. Switch Gear & Protection (171EE7T21)
4. Special Electrical Machines (171EE7E13)
5. High Voltage Engineering (171EE7E14)

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6. Electric Power Quality (171EE7E15)

7. EHVAC Transmission (171EE7E16)

8. Power Systems Simulation Lab (171EE7L09)

VIII Semester

1. HVDC Transmission (171EE8E17)

2. Flexible AC Transmission System (171EE8E18)

3. Power System Reforms (171EE8E19)

4. Digital Control Systems (171EE8E20)

5. Energy Audit, Conservation & Management (171EE8O02)

6. Vehicular Electric Power Systems (171EE8O06)

- Course content for Non Conventional Energy Sources (171PT8O02) for Petroleum Technology Engineering Department and finalized as per the BOS members suggestion.

- Course content for Electrical Safety Management (171ME8O02) for Mechanical Engineering Department and finalized as per BOS members suggestion.

- Course content for Renewable Energy Sources (17CS8O09) for Computer Science Engineering Department and finalized as per BOS members suggestion.

- Course content for Digital Control Systems (171EE8E20) for Agriculture Engineering Department and finalized as per BOS members suggestion.

- The committee has recommended the department to explore possibility of offering a minor degree students may be awarded a minor degree in another discipline if they successfully complete 15 additional credits in the discipline they would like to get a minor degree subject to university approval.

- The BOS members noted the actions that are initiated by the department to enrich the student skills.

- The BOS members discussed about the new courses introduced, the percentage of new courses during the academic year 2018-19 for B. Tech (EEE) is 8.13%. The list of new courses enclosed below as Annexure-I.

- The BOS members discussed about the revised courses, the percentage of courses revised in this academic year 2018-2019 for B. Tech (EEE) is 17.44% and M. Tech (PED) is 14.81%. The list of courses revised is enclosed as Annexure-II.

Agenda 3.4: Discussion on proposed AR19 B. Tech (EEE) Program & AR19 M. Tech (PED) Program as per the guidelines of APSCHE & AICTE.

The BOS members have discussed the proposed course structure AR19 of B. Tech (EEE) and AR19 M. Tech (PED) based on the AICTE modal curriculum, suggested some minor modifications and ratified.

Agenda 3.5: Analysis of Students Feedback & Action Taken Report

BOS Chairperson expressed that the student feedback & action taken report process initiated at the end of each semester. The BOS members noted the same.

Agenda 3.6: 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 3.7: Analysis of Results

The BOS Chairperson presented the odd and even semesters pass percentage for the A.Y.2018-2019. The BOS members noted the same.

Agenda 3.8: Any other item/s.

The following points were discussed.
- Dr. D. Suryanarayana expressed to include Energy Auditor certificate by Bureau of Energy Efficiency (BEE) as equivalent to Energy Audit, Conservation & Management course.
- BOS Members discussed about the elective courses, Dr. R. Srinivasa Rao suggested to include more numerical in the professional courses and elective courses based on the feasibility.
- Dr. Sivakumar K suggested to form list of elective courses as per specialization tracks which will enhance the knowledge of the student on a specific specialisation.
- Sri Sunny John Vergheese expressed that the students should be encouraged to go for industrial training.
- Mr. P. S. M. K. Reddy suggested to have guest lectures on recent technologies.

Agenda 3.9: Scheduling of next Board of Studies meeting.

The next BOS meeting is tentatively scheduled in the month of July 2019.

Agenda 3.10: Vote of Thanks

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

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Department of Electrical and Electronics Engineering
Annexure-I
List of New Courses in the Academic Year 2018-2019

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (EEE)	III	171HS3A10	Employability Skills - I
2	B. Tech (EEE)	IV	171HS4A11	Employability Skills – II
3	B. Tech (EEE)	VI	R1632024	Data Structures
4	B. Tech (EEE)	VI	R163202D	Robotics
5	B. Tech (EEE)	VI	R163202E	Neural Networks & Fuzzy Logic
6	B. Tech (EEE)	VI	R1632028	Data Structures Laboratory
7	B. Tech (EEE)	VI	R1632029	Professional Ethics & Human Values

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Annexure-II
List of Courses Revised in the Academic Year 2018-2019

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (EEE)	III	171EE3T02	Electrical Circuit Analysis - II
2	B. Tech (EEE)	III	171ES3T10	Thermal and Hydro Prime Movers
3	B. Tech (EEE)	IV	171EE4L03	Electrical Machines - I Lab
4	B. Tech (EEE)	V	R1631024	Pulse & Digital Circuits
5	B. Tech (EEE)	V	R1631025	Power Electronics
6	B. Tech (EEE)	V	R1631026	Electrical Machines-II Laboratory
7	B. Tech (EEE)	VI	R1632023	Micro Processors and Micro controllers
8	B. Tech (EEE)	VI	R1632026	Power Electronics Laboratory
9	M. Tech (PED)	II	172PD2E08	Reactive Power Compensation & Management
10	M. Tech (PED)	II	172PD2E09	Electrical Distribution System
11	M. Tech (PED)	II	172PD2E10	Smart Grid Technologies
12	M. Tech (PED)	II	172PD2E12	Programmable Logic Controllers & Applications

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Department of Electrical and Electronics Engineering
Annexure-III
Action Taken Report on Stakeholders Feedback in the Academic Year
2018-2019

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1.	3.3	Software programme based courses are to be introduced before VI semester. Hence, increases the opportunities of EEE students in software industry	As per the employer feedback, new software programming courses like Internet of Things, Cyber security and industry oriented courses like Internship, and programing oriented major projects will be included in the AR17 and AR19 regulations.
2.	3.4	Inclusion and coverage of GATE oriented syllabus for the EEE students that helps in attaining PSUs.	The major portion of GATE questions will be from core subjects like Power Systems and Electrical Machines. GATE oriented classes will be conducted in the above mentioned subjects.
3.	3.3	Courses on conservation of management of energy will be added to the curriculum and students should have the basic idea about energy management.	A new course named "Energy Audit, Conservation & Management" will be included in the curriculum.
4.	3.3	Application oriented software courses and skill oriented courses are to be conducted among the students.	Considering the employer feedback, necessary actions are to be taken for the students to conduct the application and skill oriented software courses
5.	3.3	The need for technical and social initiatives is necessary and enormous. If a pertinent course is added to the curriculum, students will be beneficial.	According to Alumni Feedback, a new course named "Socially Relevant Project" will be offered for the V semester students.
6.	3.8	Students are to be encouraged for industrial training, that shares the knowledge of industry in real life.	Necessary measures will be made among the students and they will be encouraged to take active part in it.
7.	3.8	Guest lectures are to be conducted among the students	Based on alumni feedback, the department is going to conduct guest

				lectures from the reputed institutions and industry sector.
8.	3.3		The need for technical and social initiatives is necessary and enormous.	Taking alumni feedback into consideration, students are encouraged to do the projects that are useful in solving real life problems.
9.	3.3		The software and hardware knowledge must be balanced by introducing more courses related to simulation and demo oriented expert talks.	A skill oriented course named "Design of Electrical Circuits using Engineering Software Tools" will be presented in AR17, AR19 curriculum.
10.	3.4		Advanced discipline courses need to be introduced in the curriculum for fast learners.	Honors programs are introduced for the fast learners in AR19 curriculum.
11.	3.3		Modifications in the course structure of V, VI, VII and VIII semesters is suggested.	Considering Teacher feedback, the modifications of semester V, VI, VII and VIII semesters will be made.
12.	3.3		Faculties have suggested some minor changes in the proposed course structure of AR19 M.Tech	Based on the suggestions given by the faculty, changes in the course structure of AR19 M.Tech will be modified.
13.	3.8		Include the new courses that shares information and generates the power in a eco-friendly manner.	As per the students suggestions, new courses such as Non-Conventional energy sources, Renewable energy sources, will be included in the AR17 curriculum
14.	3.4		Coding courses are to be included in the curriculum so that students can gain the knowledge of coding.	New value added courses like "Simulation of Electrical Circuits using MATLAB, PCB Design Using ORCAD Capture" will be added in the curriculum.
15.	3.8		Students are requested to from the list of elective courses as per specialization tracks.	Considering student's suggestion, the list of elective courses as per specialization tracks will be added in the curriculum.
16.	3.8		Students are encouraged to know the coding that helps in gaining jobs	As per the students/parents suggestions, EEE related software course like MATLAB will be thought to the students in Lab sessions.

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