SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR

(AUTONOMOUS)

4th BoS Meeting of Electrical and Electronics Engineering (EEE)

Date: 14-08-2019

The 4th meeting of Board of Studies (BoS) Electrical and Electronics Engineering is held on 14th August, 2019 (Wednesday) at 02:00 PM in the Department of Electrical and Electronics Engineering, Siddharth Institute of Engineering & Technology, Puttur, Chittoor-Dist.

As per the UGC (University Grant Commission) guidelines, the Choice Based Credit System (CBCS) and electives have been implemented in the curriculum

Dr. N.Ramesh Raju, Chairman- BoS chaired the meeting and welcomed all the members to the fourth BoS meeting and discussed the following agenda:

1. Approval of course structure for I year UG & PG in EEE w.e.f., 2019-20.
2. Approval of syllabi for I year UG & PG in EEE w.e.f., 2019-20.
3. Approval of syllabus for the subjects offered to other branches w.e.f., 2019-20.
4. Approval of panel of question paper setters.
5. Approval of panel of examiners.
6. Any other item with the permission of Chair.

After a brief introduction of the agenda items listed above, each agenda item were taken up for discussion and the following resolutions were passed.

Minutes:

Agenda 1 :

Approval of course structure for Iyear UG&PG in EEE w.e.f., 2019-20.

Resolution1:

After detailed discussion, the BOS resolved to approve the course structure for Iyear UG&PG in (given in **Annexure-I**) and is applicable from the A.Y., 2019-20.

Agenda 2 :

Approval of Syllabus for I year UG &PG in EEE w.e.f., 2019-20.

Resolution2:

After the thorough discussion, syllabus was framed to make the students acquire the required technical knowledge and skills. The BOS resolved to approve the syllabi framed for the I year B.Tech & M.Tech I&II-semesters (given in **Annexure –II**)

A. Course & Syllabus Comparison

With reference to the R15 regulations, the new regulation (R16) syllabus for III&IV year has the following modifications which are given in the below table.

I B.Tech

S.no	R18 Regulation	R19 Regulation	% of course content changed
1	Mathematics I	Algebra and Calculus	100
2	Physics	Applied Physics	20
3	Thermal and Fluid Engineering	Thermal and Fluid Engineering	10
4	Workshop practice Lab	Workshop Practice Lab	50
5	Physics Lab	Applied Physics Lab	20
6	English	Communicative English	30
7	Mathematics II	Differential Equations and vector Calculus	40
8	Chemistry	Applied Chemistry	100
9	Electrical circuits -I	Electrical circuits - I	0
10	Engineering Graphics & Design	Engineering Graphics	10
11	English Lab	Communicative English Lab	40
12	Chemistry Lab	Applied Chemistry Lab	60
13		Python Programming	100
14		Python Programming Lab	100
15		Electronic Devices and Circuits	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
EEE B.Tech IYear	15	52

B. Course Relevance

The courses that comes under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

S.no	Course Title	Course Code	Relevance
1	Communicative English	19HS0810	Skill development
2	Thermal and Fluid Engineering	19ME0361	Employability
3	Communicative English Lab	19HS0811	Skill development
4	Workshop Practice Lab	19ME0301	Skill development
5	Engineering Graphics	19ME0302	Skill development
6	Python Programming	19CS0501	Skill development
7	Electrical circuits - I	19EE0201	Employability
8	Python Programming Lab	19CS0502	Skill development

Modifications described above are carried out to the curriculum after discussion in the BOS by considering the feedback/suggestions from the stake holders viz. student , alumni, faculty and employers.

I M.Tech

S.No	R18 Regulation	R19 Regulation	% of course content changed
	PE		
1	Electric Drives System	Electric Drives Systems	0
2	Modeling and Analysis of Electrical Machines	Modeling and Analysis of Electrical Machines	0
3	Advanced Power Electronic Circuits	Advanced Power Electronic Circuits	0
4	Optimal and Adaptive Control	Optimal and Adaptive Control	0
5	Power Quality	Power Quality	0
6	Static VAR Controllers and Harmonic Filtering	Static VAR Controllers and Harmonic Filtering	0

7	PWM converter and Applications	PWM Converters and Applications	0
8	Research Methodology and IPR	Research Methodology and IPR	0
9	Power Electronics Simulation Lab	Power Electronics Simulation Lab	0
10	Industrial Automation Lab (Virtual Lab)	Industrial Automation Lab (Virtual Lab)	0
11	English for Research Paper Writing	English for Research Paper Writing	0
12	Power Electronic Converters	Power Electronic Converters	0
13	Digital Control of Power Electronic and Drive Systems	Digital Control of Power Electronic and Drive Systems	0
14	Switched Mode and Resonant Converters	Switched Mode and Resonant Converters	0
15	Industrial Load Modeling and Control	Industrial Load Modeling and Control	0
16	Advanced Digital Signal Processing	Advanced Digital Signal Processing	0
17	Advanced Microcontroller based Systems	Advanced Microcontroller based Systems	0
18	Distributed Generation	Distributed Generation	0
19	Smart Grids	Smart Grids	0
20	Power Converters Lab	Power Converters Lab	0
21	Industrial Electric Drives Lab (Virtual Lab)	Industrial Electric Drives Lab (Virtual Lab)	0
22	Constitution of India	Constitution of India	0
23	SCADA Systems and Applications	SCADA Systems and Applications	0
24	FACTS and Custom Power Devices	FACTS and Custom power Devices	0
25	HVDC Transmission Systems	HVDC Transmission Systems	0
26	Business Analytics	Business Analytics	0
27	Industrial Safety	Industrial Safety	0
28	Advances in Operations Research	Advances in Operations Research	0
29	Cost Management of Engineering Projects	Cost Management of Engineering Projects	0
30	Composite Materials	Composite Materials	0
31	Waste to Energy	Waste to Energy	0
32		Energy Management	100
CS			
33	Mathematical Methods in Control	Mathematical Methods in Control	0

		Systems	
34	Non-Linear Systems	Non-Linear Systems	0
35	Robotics and Automation	Robotics and Automation	0
36	Digital Control	Digital Control Systems	0
37	Non Linear control	Non Linear control Systems	0
38	Systems Biology	Systems Biology	0
39	SCADA system and Applications	SCADA system and Applications	0
40	Design Aspects in Control	Design Aspects in Control Systems	0
41	Research Methodology and IPR	Research Methodology and IPR	0
42	Control Systems Lab	Control Systems Lab	0
43	Programmable Logic Controller(PLC) Lab (Virtual Lab)	Programmable Logic Controller Lab (Virtual Lab)	0
44	English for Research Paper Writing	English for Research Paper Writing	0
45	Optimal Control Theory	Optimal Control Theory	0
46	Industrial Automation	Industrial Automation	0
47	Advance Control System	Adaptive Learning and Control Systems	0
48	Advanced Robotics	Advanced Robotics	0
49	Model Reduction in Control	Model Reduction in Control Systems	0
50	Robust Control	Robust Control	0
51	Advanced Digital Signal Processing	Advanced Digital Signal Processing	0
52	Advanced Control Systems Lab	Advanced Control Systems Lab	0
53	Industrial Automation Lab	Industrial Automation Lab (Virtual Lab)	0
54	Constitution of India	Constitution of India	0
55	Machine Learning Techniques	Machine Learning Techniques	0
56	Stochastic Control	Stochastic Control	0
57	Computational Methods	Computational Methods	0
58	Business Analytics	Business Analytics	0
59	Industrial Safety	Industrial Safety	0

60	Advances in Operations Research	Advances in Operations Research	0
61	Cost Management of Engineering Projects	Cost Management of Engineering Projects	0
62	Composite Materials	Composite Materials	0
63	Waste to Energy	Waste to Energy	0
64		Advanced Control System	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
CS &PE I YEAR M.TECH	64	3.125

B. Course Relevance

The courses that comes under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

S.no	Course Title	Course Code	Relevance
1	Research Methodology and IPR	19HS0823	Employability
2	Mathematical Methods in Control Systems	19EE2001	Skill development
3	Non-Linear Systems	19EE2002	Employability
4	Robotics and Automation	19EE2003	Employability
5	Digital Control Systems	19EE2004	Employability
6	Non Linear control Systems	19EE2005	Employability
7	Systems Biology	19EE2006	Employability
8	SCADA system and Applications	19EE2122	Employability
9	Design Aspects in Control Systems	19EE2007	Employability
10	Control Systems Lab	19EE2008	Skill development
11	Programmable Logic Controller Lab (Virtual Lab)	19EE2009	Skill development
12	English for Research Paper Writing	19HS0818	Skill development
13	Optimal Control Theory	19EE2010	Employability

14	Industrial Automation	19EE2011	Employability
15	Advanced Control System	19EE2012	Employability
16	Advanced Robotics	19EE2013	Employability
17	Adaptive Learning and Control Systems	19EE2014	Employability
18	Model Reduction in Control Systems	19EE2015	Employability
19	Robust Control	19EE2016	Employability
20	Advanced Digital Signal Processing	19EE2116	Employability
21	Mini Project	19EE2019	Skill development
22	Advanced Control Systems Lab	19EE2020	Skill development
23	Industrial Automation Lab (Virtual Lab)	19EE2111	Skill development
24	Constitution of India	19HS0829	Employability
25	Machine Learning Techniques	19EE2021	Employability
26	Stochastic Control	19EE2022	Employability
27	Computational Methods	19EE2023	Entrepreneurship
28	Business Analytics	19HS0824	Employability
29	Industrial Safety	19ME3121	Employability
30	Advances in Operations Research	19ME3021	Employability
31	Cost Management of Engineering Projects	19CE1028	Employability
32	Composite Materials	19ME3022	Employability
33	Research Methodology and IPR	19HS0823	Employability
34	Electric Drives Systems	19EE2101	Employability
35	Modeling and Analysis of Electrical Machines	19EE2102	Employability
36	Advanced Power Electronic Circuits	19EE2103	Employability
37	Optimal and Adaptive Control	19EE2104	Employability
38	Power Quality	19EE2105	Employability
39	Static VAR Controllers and Harmonic Filtering	19EE2107	Employability
40	PWM Converters and Applications	19EE2108	Employability

41	Energy Management	19EE2109	Employability
42	Power Electronics Simulation Lab	19EE2110	Employability
43	Industrial Automation Lab (Virtual Lab)	19EE2111	Employability
44	English for Research Paper Writing	19HS0818	Skill development
45	Power Electronic Converters	19EE2112	Employability
46	Digital Control of Power Electronic and Drive Systems	19EE2113	Skill development
47	Switched Mode and Resonant Converters	19EE2114	Employability
48	Industrial Load Modeling and Control	19EE2115	Employability
49	Advanced Digital Signal Processing	19EE2116	Employability
50	Advanced Microcontroller based Systems	19EE2117	Employability
51	Distributed Generation	19EE2118	Employability
52	Smart Grids	19EE2119	Employability
53	Mini Project	19EE2120	Employability
54	Power Converters Lab	19EE2121	Employability
55	Industrial Electric Drives Lab (Virtual Lab)	19EE2122	Skill development
56	Constitution of India	19HS0829	Skill development
57	SCADA Systems and Applications	19EE2123	Skill development
58	FACTS and Custom power Devices	19EE2124	Employability
59	HVDC Transmission Systems	19EE2125	Employability
60	Business Analytics	19HS0824	Employability
61	Industrial Safety	19ME3121	Entrepreneurship
62	Advances in Operations Research	19ME3021	Employability
63	Cost Management of Engineering Projects	19CE1028	Employability
64	Composite Materials	19ME3022	Employability
65	Waste to Energy	19EE2128	Employability

Modifications described above are carried out to the curriculum after discussion in the BOS by considering the feedback/suggestions from the stake holders' viz. student, alumni, faculty and employers.

Agenda 3 :

Approval of Syllabus for the subject offered to other branches w.e.f., 2019-20.

Resolution3:

After thorough discussion, . The BOS resolved to approve the subject offered to other branches (given in **Annexure-III)** and is applicable from the A.Y.,2019-20.

Agenda 4 :

Approval of panel of question paper setters.

Resolution4:

Approval the panel of question paper setting (given in **Annexure-IV)** to be submitted to the college academic council for approval.

Agenda 5 :

Approval of panel of examiners.

Resolution5:

Approved the panel of examiners prepared for valuation (given in **Annexure-V**) to be submitted to the college academic council for approval.

The above items were discussed, debated and the necessary approval was accorded by the BOS. The meeting was concluded with vote of thanks proposed by the chairman-BOS.

Members Present

S. No	Member Name	Academic/ Industry Position	Designation	Signature
1	Dr. N. Ramesh Raju	Professor & HOD	Chairman	
2	Mr P. Chandra Sekhar	Professor	Member	
3	Mr S. Munisekhar	Associate Professor	Member	
4	Mrs. R.Lakshmi	Assistant Professor	Member	
5	Dr. S.L. Arun	Assistant Professor	Member	
6	Dr. P. Lakshmi	Professor Dept. of EEE, Anna University Chennai	Member	Absent
7	Dr. T Gowri Manohar	Professor, Department of EEE SVUCE, S.V. University Tirupati	Member	
8	Dr. P Sujatha	Professor Dept of EEE JNTUA-Ananthapuramu	Member	
9	Mr. S V Mahesh Babu	ADE, APTRANSCO, 220KV,Substation, Renigunta	Member	
10	Mrs K Yamini	Asst. Engineer, AP Transco Chittoor	Member	Absent