

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR**  
**(AUTONOMOUS)**

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**3<sup>rd</sup> BoS Meeting of Electrical and Electronics Engineering (EEE)**

Date: 18-06-2018

The 3<sup>rd</sup> meeting of Board of Studies (BoS) Electrical and Electronics Engineering is held on 18<sup>th</sup> June, 2018 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

Prof. N.Ramesh Raju, Chairman BoS chaired the meeting and welcomed all the members to the third BoS meeting and discussed about the following agenda.

**Agenda:**

1. Approval of course structure for I & II year UG and PG w.e.f., A.Y. 2018-19.
2. Approval of syllabus for I & II year UG and PG in EEE w.e.f., A.Y. 2018-19.
3. Approval of syllabus for the subjects offered to various branches w.e.f., A.Y. 2018-19.
4. Approval of panel of question paper setters.
5. Approval of panel of examiners.
6. Any other item.

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



**Minutes:****Agenda 1 :**

Approval of course structure for I & II year UG & PG in EEE w.e.f., 2018-19.

**Resolution1:**

After detailed discussion, the BOS resolved to approve the course structure for in for I & II year UG & PG (given in **Annexure-I**) applicable from the A.Y., 2018-19.

**Agenda 2 :**

Approval of Syllabus for I & II year UG & PG in EEE w.e.f., 2018-19.

**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 & II year B.Tech I&II-semester (given in **Annexure –II** )

**A. Course & Syllabus Comparison**

With reference to the R16 regulations, the new regulation (R18) syllabus for Ist year has the following modifications which are given in the below table.

**I&II B.Tech**

S.no	R16 Regulation	R18 Regulation	% of course content changed
1	Functional English	English	30
2	Engineering Mathematics-I	Mathematics-I	90
3	Engineering Physics	Physics	20
4	Computer Programming	Programming for problem solving	5
5	Human Values & Professional Ethics	Removed	0
6	Engineering Physics Lab	Physics Lab	0
7	Computer Programming Lab	Programming for problem solving Lab	10
8	Engineering Mathematics-II	Mathematics-II	60
9	Engineering Chemistry	Chemistry	<b>90</b>
10	Engineering Graphics	Engineering graphics and design	10
11	Electrical Circuits	Electrical circuits-I	0
12	English Language and Communication Skills Lab	English Lab	10
13	Engineering Chemistry Lab	Chemistry Lab	0
14	Electrical Circuits Lab	Electrical circuits Lab	0



15	Environmental Studies	Environmental sciences	0
16	Network Analysis & synthesis	Electrical circuits-II	20
17	Generation of Electric Power	Power systems-I	60
18	Electrical Machines –I	Electrical Machines-I	0
19	Network Analysis & synthesis Lab	Electrical circuits simulation lab	10
20	Comprehensive Online Examination-I	Comprehensive Online Examination-I	0
21	Probability & Statistics	Probability & Statistics, Numerical Methods	20
22	Fluid Mechanics & Hydraulic Machinery	Thermal and fluid engineering	20
23	Electromagnetic Fields	Electromagnetic Fields	0
24	Electronic Analog Circuits	Analog Electronic Circuits	0
25	Electrical Machines –II	Electrical Machines –II	0
26	Electrical Machines-I Lab	Electrical Machines-I Lab	0
27	Fluid Mechanics & Hydraulic Machinery Lab	Thermal and fluid engineering Lab	10
28	Linear IC Applications	Digital Electronics	90
29		Induction Program (3 weeks)	100
30		Indian constitution	100
31		Biology for engineers	100
32		Digital electronics	100
33		Signals and systems	100
34		Essence of Indian traditional knowledge	100

### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
EEE B.Tech I&II Year	34	33.97



## I&II M.Tech

S.No	R16 Regulation	R18 Regulation	% of course content changed
<b>PE</b>			
1	Principles of Machine Modeling and Analysis	Modeling and Analysis of Electrical Machines	0
2	System Theory	Electric Drives System	70
3	Analysis of Power Electronic Converters	Power Electronic Converters	40
4	Power Electronic Control of DC Drives	Digital Control of Power Electronic and Drive Systems	100
5	Advanced Digital Signal Processing	Advanced Digital Signal Processing	0
6	Power Converters-I Lab	Power Electronics Simulation Lab	0
7	Advanced Power Semiconductor Devices & protection	Power Semiconductor Devices & Modeling	0
8	Flexible AC Transmission Systems	FACTS and Custom Power Devices	50
9	modern power electronics	Advanced Power Electronic Circuits	40
10	HVDC Transmission	HVDC Transmission Systems	0
11	Special Machines	Dynamics of Electrical Machines	0
12	Power Converters-II Lab	Power Converters Lab	40
13	Seminar	Phase-I Dissertation	0
14	Project work	Phase-II Dissertation	0
15		Switched Mode and Resonant Converters	100
16		Industrial Load Modeling and Control	100
17		Power Quality	100
18		Advanced Microcontroller based Systems	100
19		Distributed Generation	100
20		Smart Grids	100
21		Industrial Electric Drives Lab (Virtual Lab)	100
22		Constitution of India	100
23		Pedagogy Studies	100
24		Stress Management by Yoga	100
25		Personality Development through Life Enlightenment Skills.	100
26		Power Electronics Simulation Lab	100



27		SCADA Systems and Applications	100
28		Static VAR Controllers and Harmonic Filtering	100
29		Business Analytics	100
30		Industrial Safety	100
31		Advances in Operations Research	100
32		Cost Management of Engineering Projects	100
33		Composite Materials	100
34		Waste to Energy	100
35		Optimal and Adaptive Control	100
36		Industrial Automation Lab (Virtual Lab)	100
37		PWM converter and Applications	100
38		Research Methodology and IPR	100
<b>CS</b>			
39	System Theory	Systems Biology	100
40	Digital Control Systems	Digital Control	12.5
41	Soft Computing Techniques	Machine Learning Techniques	13.5
42	Robot Modeling Control	Advanced Robotics	25
43	Control System Lab	Control Systems Lab	0
44	Process Dynamic and Control	Design Aspects in Control	0
45	Non-Linear Control Theory	Non Linear control	0
46	Optimal Control Theory	Optimal Control Theory	0
47	Advanced Digital Signal	Advanced Digital Signal Processing	20
48	Adaptive Learning and Control	Adaptive Learning and Control	0
49	Robust Control	Robust Control	0
50	Industrial Instrumentation	Industrial Automation	0
51	Advanced Control Systems Lab	Advanced Control Systems Lab	0
52	Seminar	Phase-I Dissertation	0
53	Project work	Phase-II Dissertation	0



54		Model Reduction in Control	100
55		Advance Control System	100
56		Industrial Automation Lab	100
57		Constitution of India	100
58		Pedagogy Studies	100
59		Stress Management by Yoga	100
60		Personality Development through Life Enlightenment Skills.	100
61		Stochastic Control	100
62		Computational Methods	100
63		Business Analytics	100
64		Industrial Safety	100
65		Advances in Operations Research	100
66		Cost Management of Engineering Projects	100
67		Composite Materials	100
68		Waste to Energy	100
69		Mathematical Methods in Control	100
70		Non-Linear Systems	100
71		Research Methodology and IPR	100
72		English for Research Paper Writing	100
73		Disaster Management	100
74		Value Education	100
75		Sanskrit for Technical Knowledge	100
76		Programmable Logic Controller(PLC) Lab ( Virtual Lab)	100
77		Robotics and Automation	100
78		SCADA system and Applications	100
79		Networked and Multi-agent Control Systems	100



### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
CS &PE I&II YEAR M.TECH	79	69.75

#### 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	Mathematical Methods in Control	18EE2001	Skill development
2	Non-Linear Systems	18EE2002	Employability
3	Robotics and Automation	18EE2003	Employability
4	Digital Control	18EE2004	Employability
5	Non Linear control	18EE2005	Employability
6	Systems Biology	18EE2006	Employability
7	SCADA system and Applications	18EE2122	Employability
8	Design Aspects in Control	18EE2007	Employability
9	Research Methodology and IPR	18HS0823	Employability
10	Control Systems Lab	18EE2008	Skill development
11	Programmable Logic Controller(PLC) Lab (Virtual Lab)	18EE2009	Skill development
12	English for Research Paper Writing	18HS0818	Skill development
13	Disaster Management	18CE1029	Skill development
14	Sanskrit for Technical Knowledge	18HS0825	Skill development
15	Value Education	18HS0826	Skill development
17	Industrial Automation	18EE2011	Employability
18	Advance Control System	18EE2012	Employability
19	Advanced Robotics	18EE2013	Employability



20	Adaptive Learning and Control	18EE2014	Employability
21	Model Reduction in Control	18EE2015	Employability
22	Robust Control	18EE2016	Employability
23	Networked and Multi-agent Control Systems	18EE2017	Employability
24	Advanced Digital Signal Processing	18EE2116	Employability
25	Advanced Control Systems Lab	18EE2020	Skill development
26	Industrial Automation Lab	18EE2111	Employability
27	Pedagogy Studies	18HS0827	Skill development
28	Stress Management by Yoga	18HS0828	Skill development
29	Personality Development through Life Enlightenment Skills.	18HS0819	Skill development
30	Machine Learning Techniques	18EE2021	Employability
31	Stochastic Control	18EE2022	Employability
32	Computational Methods	18EE2023	Employability
33	Business Analytics	18HS0824	Entrepreneurship
34	Industrial Safety	18ME3121	Employability
35	Advances in Operations Research	18ME3122	Employability
36	Cost Management of Engineering Projects	18CE1028	Skill development
37	Composite Materials	18ME3128	Employability
38	Phase-I Dissertation	18EE2024	Employability
39	Phase-II Dissertation	18EE2025	Employability
40	Waste to Energy	18EE2128	Employability
41	Electric Drives System	18EE2101	Employability
42	Modelling and Analysis of Electrical Machines	18EE2102	Employability
43	Advanced Power Electronic Circuits	18EE2103	Employability
44	Optimal and Adaptive Control	18EE2104	Employability
45	Power Quality	18EE2105	Employability
46	Dynamics of Electrical Machines	18EE2106	Employability



47	Static VAR Controllers and Harmonic Filtering	18EE2107	Employability
48	PWM converter and Applications	18EE2108	Employability
49	Power Semiconductor Devices & Modelling	18EE2109	Employability
50	Research Methodology and IPR	18HS0823	Employability
51	Power Electronics Simulation Lab	18EE2110	Skill development
52	Industrial Automation Lab (Virtual Lab)	18EE2111	Employability
53	English for Research Paper Writing	18HS0818	Skill development
54	Disaster Management	18CE1029	Skill development
55	Sanskrit for Technical Knowledge	18HS0825	Skill development
56	Value Education	18HS0826	Skill development
57	Power Electronic Converters	18EE2112	Employability
58	Digital Control of Power Electronic and Drive Systems	18EE2113	Employability
59	Switched Mode and Resonant Converters	18EE2114	Employability
60	Industrial Load Modelling and Control	18EE2115	Employability
61	Advanced Digital Signal Processing	18EE2116	Employability
62	Advanced Microcontroller based Systems	18EE2117	Employability
63	Distributed Generation	18EE2118	Employability
64	Smart Grids	18EE2119	Employability
65	Power Converters Lab	18EE2121	Skill development
66	Industrial Electric Drives Lab ( Virtual Lab)	18EE2122	Skill development
67	Constitution of India	18HS0829	Skill development
68	Pedagogy Studies	18HS0827	Skill development
69	Stress Management by Yoga	18HS0828	Skill development
70	Personality Development through Life Enlightenment Skills.	18HS0819	Skill development
71	SCADA Systems and Applications	18EE2123	Employability
72	FACTS and Custom Power Devices	18EE2124	Employability
73	HVDC Transmission Systems	18EE2125	Employability



74	Business Analytics	18HS0824	Entrepreneurship
75	Industrial Safety	18ME3121	Employability
76	Advances in Operations Research	18ME3122	Employability
77	Cost Management of Engineering Projects	18CE1028	Employability
78	Composite Materials	18ME3128	Employability
79	Waste to Energy	18EE2128	Employability
80	Phase-I Dissertation	18EE2126	Employability
81	Phase-II Dissertation	18EE2127	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 various branches w.e.f., 2018-19.

### **Resolution3:**

After the through 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 subjects offered to various branches (given in **Annexure-III**)

### **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.

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.

### **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.	Members present	Designation/Organization	Role of the BOS	Signature
1	Dr. N.Ramesh Raju	Professor & HOD (Instrumentation & Control)	Chairman	<i>N. Ramesh Raju</i>
2	Mr. P. Chandra Sekhar	Professor (Power Systems)	Member	<i>P. Chandra Sekhar</i>
3	Mr. Munisekhar Sadu	Associate Professor (Electrical Machines)	Member	<i>Munisekhar</i>
4	Mr G. Seshadri	Associate Professor (Power Systems)	Member	<i>Gs</i>
5	Mr. K.Mani	Associate Professor (Control systems)	Member	<i>K. Mani</i>
6	Mr. J.Yungandhar	Assistant Professor (Power Electronics)	Member	<i>J. Yungandhar</i>
7	Dr. P. Lakshmi	Professor, Dept. of EEE, Anna University, Madras	Member	<i>P. Lakshmi</i>
8	Dr.G.V.Marutheswar	Professor, Dept. of EEE, S.V.University, Tirupathi.	Member	<i>Absent</i>
9	Dr. Ch. Changaiah	Professor, Dept. of EEE, S.V. University, Tirupati	Member	<i>Ch. Changaiah</i>
10	Sri P.Balaji	Assistant Divisional Engineer APTRANCO, Sullurupet 220 KV Substation	Member	<i>Absent</i>
11	Miss. K. Yamini	Assistant Engineer(AE), APTRANCO, 132 KV Substation ,Gurramkonda, Madanapalli.	Member	<i>K. Yamini</i>