



# **SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY**

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)

(Accredited by NBA for Civil, EEE, Mech., ECE & CSE

Accredited by NAAC with 'A' Grade)

Puttur -517583, Chittoor District, A.P. (India)

## **DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

### **BOARD OF STUDIES MINUTES OF MEETING**

<b>S. No</b>	<b>Date</b>	<b>BOARD OF STUDIES MINUTES OF MEETING</b>	<b>PageNo.</b>
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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR  
(AUTONOMOUS)**

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**1<sup>st</sup> BoS Meeting of Electrical and Electronics Engineering (EEE)**

Date: 08-07-2016

The 1<sup>st</sup> meeting of Board of Studies (BoS) Electrical and Electronics Engineering is held on 8<sup>th</sup> July, 2016 at 1.30 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

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

**Agenda:**

1. Preparation of course structure for UG & PG in EEE w.e.f., 2016-17.
2. Preparation of syllabi for I & II year UG & PG in EEE w.e.f., 2016-17.
3. Preparation of syllabi for the subjects offered to other branches w.e.f., 2016-17.
4. Suggesting panel of question paper setters.
5. Suggesting 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 :**

Preparation of course structure for UG & PG in EEE w.e.f., 2016-17.

**Resolution1:**

After detailed discussion, the course structure for in for UG & PG in EEE is prepared (given in **Annexure-I**) and is applicable from the A.Y., 2016-17.

**Agenda 2 :**

Preparation of syllabi for I & II year UG & PG in EEE w.e.f., 2016-17.

**Resolution2:**

After the thorough discussion, syllabi was formulated to make the students acquire the required technical knowledge and skills. The syllabi framed for the I & II year of UG & PG in EEE (given in **Annexure –II**) and is applicable from the A.Y., 2016-17.

**A. Course & Syllabus Comparison**

With reference to the R15 regulations, the new regulation (R16) syllabus for I&II B.Tech I & II M.Tech has the following modifications which are given in the below table.

**I & II B.Tech**

S.No	R15 Regulation	R16 Regulation	% of course content changed
1	Functional English	Functional English	100
2	Mathematics – I	Engineering Mathematics-I	50
3	Computer Programming	Computer Programming	60
4	Engineering Physics	Engineering Physics	0
5	Engineering Drawing	Engineering Graphics	20
6	English Language Communication Skills Lab	English Language and Communication Skills Lab	10
7	Engineering Physics Lab	Engineering Physics Lab	0
8	Computer Programming Lab	Computer Programming Lab	10
9	Mathematics – II	Engineering Mathematics-II	20
10	English for Professional Communication	Professional English	40
11	Engineering Chemistry	Engineering Chemistry	10
12	Environmental Studies	Environmental Studies	20
13	Electrical Circuits – I	Electrical Circuits	0
14	Engineering Chemistry Lab	Engineering Chemistry Lab	0
15	Electrical Circuits Lab	Electrical Circuits Lab	0

16	Engineering & IT Workshop	Engineering & IT Workshop Lab	20
17	Mathematics –III	Engineering Mathematics-III	50
18	Electrical Circuits – II	Network Analysis & synthesis	30
19	Electrical Machines – I	Electrical Machines –I	20
20	Control Systems Engineering	Linear Control Systems	0
21	Electronic Devices & Circuits	Basic Electronic Devices	5
22	Data Structures	Data Structures through C	0
23	Electric Circuits Simulation Laboratory	Network Analysis & synthesis Lab	60
24	Electronic Devices & Circuits Laboratory	Basic Electronic Devices Lab	0
25	Managerial Economics and Financial Analysis	Managerial Economics and Financial Analysis	0
26	Electrical Machines – II	Electrical Machines –II	20
27	Electrical Power Generating Systems	Generation of Electric Power	0
28	Electromagnetic Fields	Electromagnetic Fields	0
29	Analog Electronic Circuits	Electronic Analog Circuits	0
30		Fluid Mechanics & Hydraulic Machinery	100
31		Fluid Mechanics & Hydraulic Machinery Lab	100
32		Probability & Statistics	100
33		Analog Electronic Circuits Lab	100

### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
EEE B.Tech I&II Year	33	28.63

### I & II M.Tech

S.No	R12 Regulation	R16 Regulation	% of course content changed
<b>CS</b>			
1	Modern Control Theory	System Theory	0
2	Digital Control Systems	Digital Control Systems	0
3	Robot Modeling and Control	Robot Modeling Control	0
4	Advanced Instrumentation Systems	Advanced Instrumentation Systems	20
5	Principles of Machine Modeling and Analysis	Principles of Machine Modeling and Analysis	0
6	Advanced Microprocessors and Microcontrollers	micro controllers and interfacing	100
7	Control Systems Lab	Control System Lab	0
8	Estimation of Signals and Systems	Sensors and Signal Conditioning	100
9	Non - Linear Control Theory.	Non-Linear Control Theory	0
10	Optimal Control	Optimal Control Theory	0
11	Advanced Digital Signal Processing	Advanced Digital Signal Processing	20
12	Adaptive and Learning Control	Adaptive Learning and Control	0
13	Robust Control	Robust Control	0
14	Process Dynamics and Control	Process Dynamic and Control	0
15	Control System Simulation Lab	Advanced Control Systems Lab	0
16		Soft Computing Techniques	100
17		Power Plant Instrumentation	100
<b>PE</b>			
18	Modern Control Theory	System Theory	0
19	Microprocessor and Microcontrollers	Micro Controllers and Interfacing	100
20	Principles of Machine modeling Analysis	Principles of Machine Modeling and Analysis	0
21	Analysis of Power Electronic Converters	Analysis of Power Electronic Converters	0
22	Power Electronic Control of DC Drives	Power Electronic Control of DC Drives	0
23	Advanced Digital Signal Processing	Advanced Digital Signal Processing	20
24	Neural Networks and Fuzzy Systems	Neural Networks and Fuzzy Logic	0
25	Power Converters Lab	Power Converters-I Lab	0
26	Flexible AC Transmission Systems	Flexible AC Transmission Systems	0

27	HVDC Transmission	HVDC Transmission	0
28	Power Electronic Control of AC Drives	Power Electronic Control of AC Drives	0
29	Advanced Power Semiconductor Devices & Protection	Advanced Power Semiconductor Devices & protection	0
30	Modern Power Electronics	modern power electronics	
31	Energy Auditing, Conservation And Management	Energy Auditing Conversation and Management	0
32	Electrical Systems Simulation Lab	Power Converters-II Lab	100
33		Special Machines	100

### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
CS&PE M.Tech I&II Year	33	23.75

### B. Course Relevance

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

Sno	Course Title	Course Code	Relevance
1	Functional English	16HS601	Skill development
2	Computer Programming	16CS501	Skill development
3	Computer Programming Lab	16CS502	Skill development
4	Human Values & Professional Ethics	16HS606	Employability
5	Engineering & IT Workshop Lab	16ME301	Employability
6	Engineering Graphics	16ME302	Employability
7	Professional English	16HS610	Skill development
8	Electrical Circuits	16EE201	Employability
9	English Language and Communication Skills Lab	16HS607	Skill development
10	Electrical Circuits Lab	16EE202	Employability
11	environmental studies	16HS605	Employability
12	Network Analysis & synthesis	16EE203	Employability
13	Basic Electronic Devices	16EC401	Employability
14	Generation of Electric Power	16EE210	Employability
15	Electrical Machines –I	16EE211	Employability
16	Network Analysis & synthesis Lab	16EE204	Employability
17	Basic Electronic Devices Lab	16EC405	Employability
18	Data Structures through C	16CS503	Skill development

19	fluid mechanics and hydraulic machinery	16CE112	Skill development
20	Electromagnetic Fields	16EE214	Employability
21	Electronic Analog Circuits	16EC411	Employability
22	Electrical Machines –II	16EE215	Employability
23	Electrical Machines-I Lab	16EE217	Employability
24	Analog Electronic Circuits Lab	16EC414	Employability
25	Comprehensive Soft Skills	16HS614	Skill development
26	Fluid mechanics and hydraulic machinery lab	16CE116	Skill development
<b>I &amp; II M.Tech</b>			
27	Principles of Machine Modelling and Analysis	16EE4301	Employability
28	Micro Controllers and Interfacing	16EC5501	Employability
29	System Theory	16EE7501	Employability
30	Analysis of Power Electronic Converters	16EE4302	Employability
31	Power Electronic Control of DC Drives	16EE4303	Employability
32	Advanced Digital Signal Processing	16EE4304	Employability
33	Neural Networks and Fuzzy Logic	16EE4305	Employability
34	Power Converters-I Lab	16EE4306	Skill development
35	Power Electronic Control of AC Drives	16EE4307	Employability
36	Advanced Power Semiconductor Devices	16EE4308	Employability
37	Flexible AC Transmission Systems	16EE4309	Employability
38	modern power electronics	16EE4310	Employability
39	HVDC Transmission	16EE4311	Employability
40	Special Machines	16EE4312	Employability
41	Energy Auditing Conversation and Management	16EE4313	Entrepreneurship
42	Seminar	16EE4315	Skill development
43	Project work	16EE4316	Employability
44	Power Converters-II Lab	16EE4314	Skill development
45	System Theory	16EE7501	Employability
46	micro controllers and interfacing	16EC5501	Employability
47	Digital Control Systems	16EE7502	Employability
48	Soft Computing Techniques	16EE7503	Employability
49	Robot Modelling Control	16EE7504	Employability
50	Advanced Instrumentation Systems	16EE7505	Employability
51	Principles of Machine Modelling and Analysis	16EE4301	Employability
52	Sensors and Signal Conditioning	16EE7506	Employability
53	Control System Lab	16EE7507	Skill development
54	Process Dynamic and Control	16EE7508	Employability
55	Non-Linear Control Theory	16EE7509	Employability
56	Optimal Control Theory	16EE7510	Employability
57	Advanced Digital Signal	16EE7511	Employability
58	Adaptive Learning and Control	16EE7512	Employability

59	Robust Control	16EE7513	Employability
60	Power Plant Instrumentation	16EE7514	Employability
61	Industrial Instrumentation	16EE7515	Employability
62	Advanced Control Systems Lab	16EE7516	Skill development
63	Seminar	16EE7517	Skill development
64	Project work	16EE7518	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 :**

Preparation of syllabi for the subjects offered to other branches w.e.f., 2016-17.

**Resolution3:**

After the through discussion syllabi was prepared and finalized for the subjects offered to other branches (given in **Annexure-III**).

**Agenda 4 :**

Suggesting panel of question paper setters.

**Resolution4:**

The panel of question paper setters was suggested (given in **Annexure-IV**).

**Agenda 5 :**

Suggesting panel of examiners.






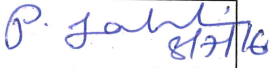

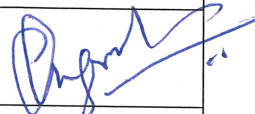


**Resolution5:**

The panel of examiners was suggested (given in **Annexure-V**).

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.



## Members Present

S. No.	Name of the Member	Designation/Organization	Role in the BOS	Signature
1	Prof. N.Ramesh Raju	Professor & HOD-SIETK	Chairman	
2	Dr. A.Sreenivasan	Professor -SIETK	Member	
3	Dr.B.Rajani	Professor -SIETK	Member	
4	Mr. Munisekhar Sadu	Associate Professor-SIETK	Member	
5	Mr. J.Yungandhar	Assistant Professor- SIETK	Member	
6	Dr. P. Lakshmi	Professor, Dept. of EEE, Anna University, Madras	Member	
7	Dr.G.V.Marutheswar	Professor, Dept. of EEE, S.V.University, Tirupathi.	Member	
8	Dr. Ch. Changaiah	Professor , Dept. of EEE, S.V. University, Tirupati	Member	
9	Sri P.Balaji	Assistant Divisional Engineer APTRANCO, Sullurupet 220 KV Substation	Member	
10	Miss. K. Yamini	Assistant Engineer(AE), APTRANCO, 132 KV Substation, Gurramkonda, Madanapalli.	Member	

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**2<sup>nd</sup>BoS Meeting of Electrical and Electronics Engineering (EEE)**

Date: 23-12-2017

The 2<sup>nd</sup> meeting of Board of Studies (BoS) Electrical and Electronics Engineering is held on 23<sup>rd</sup> December, 2017 at 10.00 AM 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**

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

1. Preparation of course structure for III & IV year UG in EEE w.e.f., A.Y. 2018-19.
2. Preparation of syllabi for III & IV year UG in EEE w.e.f., A.Y. 2018-19.
3. Preparation of syllabus for the subject offered to other branches w.e.f., A.Y. 2018-19.
4. Suggesting panel of question paper setters.
5. Suggesting panel of examiners.
6. Any other item.

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 :**

Preparation of course structure for III & IV year UG in EEE w.e.f., A.Y. 2018-19.

**Resolution1:**

After detailed discussion, the course structure for in for III & IV year UG in EEE was prepared (given in **Annexure-I**) and is applicable from the A.Y., 2018-19.

**Agenda 2 :**

Preparation of syllabus for III & IV year UG in EEE w.e.f., 2018-19.

**Resolution2:**

After the thorough discussion, syllabi was formulated to make the students acquire the required technical knowledge and skills. The syllabi framed for the III & IV year of UG in EEE (given in **Annexure –II**) and is applicable from the A.Y., 2018-19.

**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.

**III&IV B.Tech**

S.no	R15 Regulation	R16 Regulation	% of course content changed
1	Control Systems Engineering	Linear Control Systems	0
2	Electronic Devices & Circuits	Basic Electronic Devices	5
3	Data Structures	Data Structures through C	0
4	Electric Circuits Simulation Laboratory	Network Analysis & synthesis Lab	60
5	Electronic Devices & Circuits Laboratory	Basic Electronic Devices Lab	0
6	Managerial Economics and Financial Analysis	Managerial Economics and Financial Analysis	0
7	Electrical Machines – II	Electrical Machines –II	20
8	Electrical Power Generating Systems	Generation of Electric Power	0
9	Electromagnetic Fields	Electromagnetic Fields	0
10	Analog Electronic Circuits	Electronic Analog Circuits	0
11	Electrical Machines Laboratory – I	Electrical Machines-I Lab	0
12	Control Systems & Simulation Laboratory	Control Systems and Simulation Lab	0

13	Electrical Measurements	Electrical and Electronic Measurements	0
14	Linear & Digital IC Applications	Linear IC Applications	50
15	Electrical Power Transmission Systems	Electrical Power Transmission Systems	0
16	Power Electronics	Power Electronics	0
17	Electrical Machines – III	Electrical Machines-III	0
18	Digital Circuits and Systems	Digital Signal Processing	100
19	Electrical Machines Laboratory – II	Electrical Machines-II Lab	0
20	Electrical Measurements Laboratory	Electrical Measurements Lab	0
21	Social Values & Ethics	Human Values & Professional Ethics	30
22	Power Semiconductor Drives	Power Semiconductor Drives	0
23	Power System Protection	Switch Gear and Protection	35
24	Microprocessors & Microcontrollers	Microprocessors & Microcontrollers	0
25	Power System Analysis	Power System Analysis	0
26	Neural Networks & Fuzzy Logic	Soft Computing Techniques	0
27	Microprocessors & Microcontrollers Laboratory	Microprocessors and Microcontrollers lab	0
28	Power Electronics & Simulation Laboratory	Power Electronics and Simulation Lab	30
29	Advanced English Language Communication Skills (AELCS) Laboratory	Advanced English Language and Communication Skills Lab.	50
30	Electrical Distribution Systems	Electrical Distribution Systems	0
31	Power System Operation and Control	Power System Operation and Control	0
32	Utilization of Electrical Energy	Utilization of Electrical Power	0
33	Smart Grid	Smart Grid technologies	60
34	Flexible AC Transmission Systems	FACTS Controllers	20
35	Power Quality	Principles of Power Quality	0
36	Power Systems & Simulation Laboratory	Power Systems and Simulation Lab	0
37	Power System Dynamics and Control	Advanced Control Theory	80
38	Industrial Automation & Control	Special Electrical Machines	100

39	HVDC Transmission	HVDC Transmission Systems	0
40	Energy Resources & Technology	Non-Conventional Energy Resources	20
41		Switching Theory and Logic Design	100
42		Mat lab Programming	100
43		Elements of Road Traffic Safety	100
44		Data Base Management Systems	100
45		High Voltage Engineering	100
46		MOOC Courses- Offered by Swayam/NPTEL/NISTE - suggested by the department(Online Courses)	100

### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
EEE B.Tech III&IV Year	46	27.39

### B. Course Relevance

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

Sno	Course Title	Course Code	Relevance
1	Linear Control Systems	16EE216	employability
2	Electrical Power Transmission Systems	16EE218	employability
3	Power Electronics	16EE219	employability
4	Electrical Machines-III	16EE220	employability
5	Switching Theory and Logic Design	16EC402	employability
6	Linear IC Applications	16EC417	skill development
7	Electrical Machines-II Lab	16EE221	skill development
8	Control Systems and Simulation Lab	16EE222	skill development
9	Aptitude Practice-I	16HS616	employability

10	Power Semiconductor Drives	16EE223	employability
11	Electrical and Electronic Measurements	16EE224	employability
12	Switch Gear and Protection	16EE225	employability
13	Power System Analysis	16EE226	employability
14	Microprocessors & Microcontrollers	16EC423	skill development
15	Advanced English Language and Communication Skills Lab.	16HS615	skill development
16	Power Electronics and Simulation Lab	16EE227	skill development
17	Microprocessors and Microcontrollers lab	16EC428	skill development
18	Aptitude Practice-II	16HS617	employability
19	Power System Operation and Control	16EE228	employability
20	Electrical Distribution Systems	16EE229	employability
21	Digital Signal Processing	16EC422	skill development
22	Managerial Economics and Financial Analysis	16MB750	skill development
23	Principles of Power Quality	16EE230	employability
24	HVDC Transmission Systems	16EE231	employability
25	Smart Grid technologies	16EE232	employability
26	Elements of Road Traffic Safety	16CE145	skill development
27	Non-Conventional Energy Resources	16ME313	skill development
28	Mat lab Programming	16EC443	skill development
29	Data Base Management Systems	16CS511	skill development
30	Power Systems and Simulation Lab	16EE233	skill development
31	Electrical Measurements Lab	16EE234	skill development
32	Entrepreneurship Development	16MB751	entrepreneurship
33	Advanced Control Theory	16EE235	employability
34	FACTS Controllers	16EE236	employability
35	Soft Computing Techniques	16EE237	employability

36	Utilization of Electrical Power	16EE238	employability
37	High Voltage Engineering	16EE240	employability
38	Special Electrical Machines	16EE241	employability
39	Seminar	16EE242	skill development
40	Project Work	16EE243	employability
41	Aptitude Practice-I	16HS616	skill development
42	Aptitude Practice-II	16HS617	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.

**Agenda 3 :**

Preparation of syllabus for the subject offered to other branches w.e.f., 2018-19.

**Resolution3:**

After the through discussion syllabus was prepared for the subject offered to other branches (given in **Annexure-III**) and is applicable from the A.Y., 2018-19.

**Agenda 4 :**

Suggesting panel of question paper setters.

**Resolution4:**

The panel of question paper setters was suggested (given in **Annexure-IV**).

**Agenda 5 :**

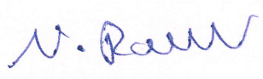
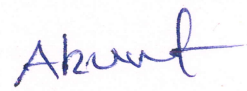

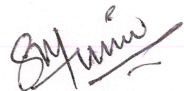
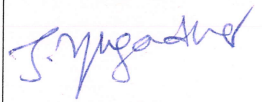


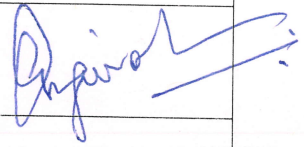

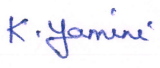
Suggesting panel of examiners.

**Resolution5:**

The panel of examiners for valuation was suggested (given in **Annexure-V**).

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	Prof. N.Ramesh Raju	Professor & HOD	Chairman	
2	Dr. A.Sreenivasan	Professor (Control systems)	Member	
3	Dr. B.Rajani	Professor (Power Systems)	Member	
4	Mr. Munisekhar Sadu	Associate Professor (Electrical Machines)	Member	
5	Mr. J. Yungandhar	Assistant Professor (Power Electronics)	Member	
6	Dr. P. Lakshmi	Professor, Dept. of EEE, Anna University, Madras	Member	
7	Dr. G.V. Marutheeswar	Professor, Dept. of EEE, S.V. University, Tirupathi.	Member	
8	Dr. Ch. Chengaiah	Professor, Dept. of EEE, S.V. University, Tirupati	Member	
9	Sri P. Balaji	Assistant Divisional Engineer APTRANCO, Sullurupet 220 KV Substation	Member	
10	Miss. K. Yamini	Assistant Engineer(AE), APTRANCO, 132 KV Substation ,Gurramkonda, Madanapalli.	Member	



**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- semesters (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 :**

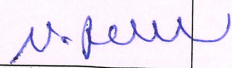
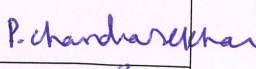
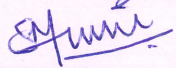
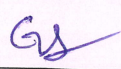
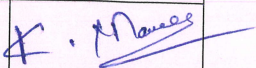
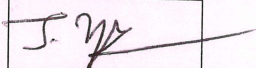
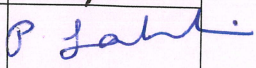
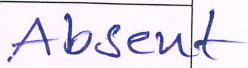
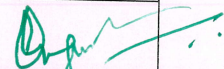
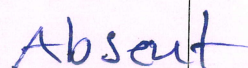
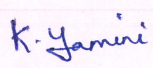
Approval of panel of examiners.

**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	
2	Mr. P. Chandra Sekhar	Professor (Power Systems)	Member	
3	Mr. Munisekhar Sadu	Associate Professor (Electrical Machines)	Member	
4	Mr G. Seshadri	Associate Professor (Power Systems)	Member	
5	Mr. K.Mani	Associate Professor (Control systems)	Member	
6	Mr. J.Yungandhar	Assistant Professor (Power Electronics)	Member	
7	Dr. P. Lakshmi	Professor, Dept. of EEE, Anna University, Madras	Member	
8	Dr.G.V.Marutheswar	Professor, Dept. of EEE, S.V.University, Tirupathi.	Member	
9	Dr. Ch. Changaiah	Professor, Dept. of EEE, S.V. University, Tirupati	Member	
10	Sri P.Balaji	Assistant Divisional Engineer APTRANCO, Sullurupet 220 KV Substation	Member	
11	Miss. K. Yamini	Assistant Engineer(AE), APTRANCO, 132 KV Substation ,Gurramkonda, Madanapalli.	Member	

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

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**4<sup>th</sup> BoS Meeting of Electrical and Electronics Engineering (EEE)**

Date: 14-08-2019

The 4<sup>th</sup> meeting of Board of Studies (BoS) Electrical and Electronics Engineering is held on 14<sup>th</sup> 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
<b>PE</b>			
1	Electric Drives System	Electric Drives Systems	0
2	Modeling and Analysis of Electrical Machines	Modeling and Analysis of Electrical Machines	0
3	A Jvanced 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:**

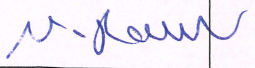

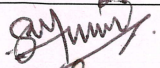
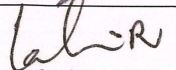
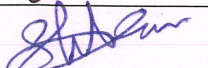
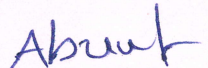
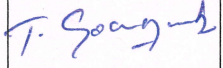
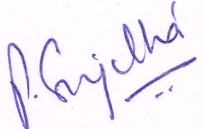
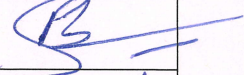
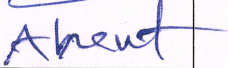
Approved the panel of examiners prepared for valuation (given in **Annexure-V**) to be submitted to the college academic council for approval.

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.

2019 - 2020

ELECTRICAL AND ELECTRONICS ENGINEERING

**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	
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	

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

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**5<sup>th</sup> BoS Meeting of Electrical and Electronics Engineering (EEE)**

Date: 28/08/2020

The 5<sup>th</sup> meeting of Board of Studies (BoS) in Electrical and Electronics Engineering is held on 28<sup>th</sup> August, 2020 (Friday) at 10.00 AM online through ZOOM.

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 fifth BoS meeting and discussed the following agenda:

**Agenda:**

1. To discuss and frame the syllabi for II year B.Tech. under R19 Regulation.
2. To discuss and frame the syllabi for III year B.Tech. under R18 Regulation.
3. To discuss and frame the syllabi for I & II years M.Tech. under R20 Regulation and II year M. Tech under R19 regulation.
4. To prepare panel of examiners and paper setters for I, II and III B.Tech. that comes under R20, R19 & R18 respectively.
5. To prepare panel of examiners and paper setters for I & II M.Tech. that comes under R20 regulation and II M.Tech. under R19 regulation.
6. Any other item.

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 :**

To discuss and frame the syllabi for II year B.Tech. under R19 Regulation.

**Resolution1:**

After thorough discussion, course structure and syllabus was framed to make the students acquire required technical knowledge and skills. The BOS resolved to approve the course structure for II year B.Tech. under R19 Regulation (given in Annexure –II respectively) applicable from the A.Y.2020-21.

**A. Course & Syllabus Comparison**

With reference to the R18 regulations, the new regulation (R19) syllabus for II year has the following modifications which are given in the below table.

**II B.TECH**

S.no	R18 Regulation	R19 Regulation	% of course content changed
1	Electrical circuits-II	Electrical circuits-II	0
2	Analog Electronic Circuits	Analog Electronic Circuits	60
3	Electromagnetic Fields	Electromagnetic Fields	0
4	Electrical Machines -I	Electrical Machines-I	0
5	Analog Electronic Circuits lab	Analog Electronic Circuits Lab	0
6	Electrical circuits lab	Electrical Circuits Lab	0
7	Environmental Sciences	Environmental Science	0
8	Electrical Machines II	Electrical Machines-II	20
9	Electrical Machines-I Lab	Electrical Machines-I Lab	0
10	Electrical Machines –II Lab	Electrical Machines-II Lab	0
11		Water Technology	100
12		Fundamentals of Mechanical Engineering	100
13		Introduction to Communication Systems	100
14		Relational Data Base Management Systems	100
15		Management Science	100
16		Electronic Devices and Circuits Lab	100
18		Switching Theory and Logic Design	100

19		Fundamentals of Urban Planning	100
20		Mechanical Measurements & Control Systems	100
21		Elements of Embedded Systems	100
22		Java Programming	100
23		Intellectual Property Rights	100
24		Switching Theory and Logic Design Lab	100

### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
EEE B.Tech II Year	24	60

### B. Course Relevance

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

Sno	Course Title	Course Code	Relevance
1	Electrical circuits-II	19EE0202	Employability
2	Electrical Machines-I	19EE0203	Employability
3	Water Technology	19CE0136	Skill development
4	Fundamentals of Mechanical Engineering	19ME0349	Skill development
5	Introduction to Communication Systems	19EC0448	Skill development
6	Relational Data Base Management Systems	19CS0550	Skill development
7	Management Science	19HS0813	Entrepreneurship
8	Electronic Devices and Circuits Lab	19EC0405	Skill development
9	Electrical Machines-I Lab	19EE0204	Skill development
10	Electrical Circuits Lab	19EE0205	Skill development
11	Switching Theory and Logic Design	19EC0401	Employability
12	Analog Electronic Circuits	19EC0446	Skill development
13	Electromagnetic Fields	19EE0207	Employability



14	Electrical Machines-II	19EE0208	Employability
15	Fundamentals of Urban Planning	19CE0143	Skill development
16	Mechanical Measurements & Control Systems	19ME0350	Employability
17	Elements of Embedded Systems	19EC0449	Employability
18	Java Programming	19CS0551	Skill development
19	Switching Theory and Logic Design Lab	19EC0404	Skill development
20	Analog Electronic Circuits Lab	19EC0447	Skill development
21	Electrical Machines-II Lab	19EE0209	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.

#### **Agenda 2 :**

To discuss and frame the syllabi for III year B.Tech. under R18 Regulation.

#### **Resolution2:**

After detailed discussion, the BOS resolved to approve the course structure for III year B.Tech. under R18 Regulation (given in Annexure –III respectively) applicable from the A.Y.2020- 21.

#### **A. Course & Syllabus Comparison**

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

### **III B.TECH**

<b>S.no</b>	<b>R16 Regulation</b>	<b>R18 Regulation</b>	<b>% of course content changed</b>
1	Linear Control Systems	Control Systems	10
2	Electrical Power Transmission Systems	Power systems-II	10
3	Power Electronics	Power Electronics	80
4	Linear IC Applications	Digital Electronics	50
5	Electrical Machines-II Lab	Electrical Machines-II Lab	90
6	Control Systems and Simulation Lab	Control systems lab	0

7	Electrical and Electronic Measurements	Electrical Measurements	0
8	Microprocessors & Microcontrollers	Microprocessors & Microcontrollers	10
9	Advanced English Language and Communication Skills Lab.	English for corporate communication skills lab	0
10	Power Electronics and Simulation Lab	power electronics and drives Lab	30
11	Digital Signal Processing	Digital Signal Processing	50
12	Managerial Economics and Financial Analysis	Managerial Economics and Financial Analysis	0
13	Elements of Road Traffic Safety	Elements of Road Traffic Safety	0
14	Non-Conventional Energy Resources	Non-Conventional Energy Resources	0
15	Intellectual Property Rights	Intellectual Property Rights	0
16	Power Systems and Simulation Lab	Power Systems Lab	0
17	Electrical Measurements Lab	Electrical Measurements Lab	30
18		Management science	100
19		Electrical machine design	100
20		Digital control systems	100
21		Introduction to IOT	100
22		Python programing	100
23		Internship (60 Hours)	100

### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
EEE B.Tech III Year	23	41.73

### B. Course Relevance

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

<b>S.no</b>	<b>Course Title</b>	<b>Course Code</b>	<b>Relevance</b>
1	Managerial Economics and Financial Analysis	18HS0812	entrepreneurship
2	Digital signal processing	18EC0414	employability
3	Power Systems-I	18EE0210	employability
4	Control Systems	18EE0211	employability
5	Electrical Measurements	18EE0212	employability
6	Electrical Machines –II Lab	18EE0213	employability
7	Control Systems Lab	18EE0214	employability
8	Electrical Measurements Lab	18EE0215	employability
9	aptitude practices	18HS0842	skill development
10	Management Science	18HS0813	entrepreneurship
11	Microprocessors and Microcontrollers	18EC0420	employability
12	Power Systems – II	18EE0216	employability
13	Electrical Machine Design	18EE0221	employability
14	Digital Control Systems	18EE0222	employability
15	Modern Control Theory	18EE0223	employability
16	Elements of Road Traffic Safety	18CE0127	skill development
17	Non-Conventional Energy Resources	18ME0307	skill development
18	Introduction to IOT	18EC0449	skill development
19	Python Programming	18CS0517	skill development
20	Internship (60 Hours)	18EE0243	employability
21	Power Electronics and Drives Lab	18EE0217	employability
22	Power Systems Lab	18EE0218	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:**

To discuss and frame the syllabi for I & II years M.Tech. under R20 Regulation and II year M. Tech under R19 regulation.

### **Resolution 3 :**

After thorough discussion, course structure and syllabus was framed to make the students acquire required technical knowledge and skills. The BOS resolved to approve the course structure and Syllabi for I&II year M.Tech. under R20 Regulation and II year M.Tech under R19 Regulation (given in Annexure –IV) respectively applicable from the A.Y.2020-21.

#### **A. Course & Syllabus Comparison**

With reference to the R18 regulations, the new regulation (R19) syllabus for II year has the following modifications which are given in the below table.

#### **II M.TECH**

<b>S.no</b>	<b>R18 Regulation</b>	<b>R19 Regulation</b>	<b>% of course content changed</b>
<b>CS</b>			
1	Phase-I Dissertation	Phase-I Dissertation	0
2	Phase-II Dissertation	Phase-II Dissertation	0
<b>PE</b>			
3	Phase-I Dissertation	Phase-I Dissertation	0
4	Phase-II Dissertation	Phase-II Dissertation	0

#### **Consolidated Sheet**

<b>Course</b>	<b>Total courses</b>	<b>Percentage of syllabus changed</b>
M.Tech CS&PE II Year	4	0

#### **B. Course Relevance**

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

## II M.TECH

S.no	Course Title	Course Code	Relevance
<b>CS</b>			
1	Phase-I Dissertation	19EE2024	Employability
2	Phase-II Dissertation	19EE2025	Employability
<b>PE</b>			
3	Phase-I Dissertation	19EE2126	Employability
4	Phase-II Dissertation	19EE2127	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 4:**

To prepare panel of examiners and paper setters for I, II and III B.Tech. that comes under R20, R19 & R18 respectively.

### **Resolution 4:**

Approved the panel of examiners prepared for valuation and panel of question paper setters (given in Annexure–V respectively) to be submitted to the college Academic council for approval.

### **Agenda 5:**

To prepare panel of examiners and paper setters for I & II M.Tech. that comes under R20 regulation and II M.Tech. under R19 regulation.

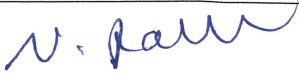

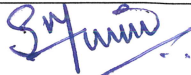



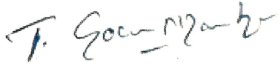
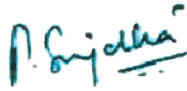

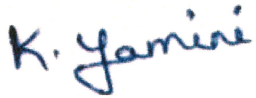
### **Resolution 5 :**

Approved the panel of examiners prepared for valuation and panel of question paper setters (given in Annexure–VI respectively) 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.

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## Members Present

S.No.	Member Name	Academic/Industry Position	Designation	Signature
1	Dr. N.Ramesh Raju	Professor &HOD (Instrumentation & Control)	Chairman	
2	Prof. P.Chandra Sekhar	Professor (Power Systems)	Member	
3	Mr.S.Muni Sekhar	Associate Professor (Power Electronics)	Member	
4	Mr.T.Madhurantaka	Associate Professor (Power Electronics)	Member	
5	Mrs R Lakshmi	Associate Professor (Power Systems)	Member	
6	Dr. P. Lakshmi	Professor Department of EEE Anna University, Chennai	Member	
7	Dr T Gouri Manohar	Professor Department of EEE, S V University, Tirupati	Member	
8	Dr. P Sujatha	Professor Department of EEE, JNTUA, Anantapuramu	Member	
9	Mr.S V Mahesh Babu	Assistant Divisional Engineer, AP Transco, Chittoor	Member	
10	Miss K Yamini	Assistant Engineer, AP Transco, Chittoor	Member	

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

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**6<sup>th</sup>BoS Meeting of Electrical and Electronics Engineering (EEE)**

Date: 19/01/2021

The 6<sup>th</sup> meeting of Board of Studies (BoS) in Electrical and Electronics Engineering is held on 19<sup>th</sup> January, 2021 (Tuesday) at 10.30 AM online through ZOOM.

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 sixth BoS meeting and discussed the following agenda:

**Agenda:**

1. To discuss and frame the syllabi for I year B.Tech. under R20 Regulation.
2. To prepare panel of examiners and paper setters for I B.Tech that comes under R20.
3. Any other item.

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**

To discuss and frame the syllabi for I year B.Tech. under R20 Regulation.

**Resolution: 1**

After detailed discussion, the BOS resolved to approve the course structure and syllabi for I year B.Tech. under R20 Regulation (given in Annexure –I&II respectively) applicable from the A.Y.2020-2021.

**A. Course & Syllabus Comparison**

With reference to the R19 regulations, the new regulation (R20) syllabus for Ist year has the following modifications which are given in the below table.

## I B.Tech

S.no	R19 Regulation	R20 Regulation	% of course content changed
1	Applied Chemistry	Applied Chemistry	5
2	Algebra and Calculus	Algebra and Calculus	30
3	Communicative English	Communicative English	0
4	Thermal and Fluid Engineering	Thermal and Fluid Engineering	20
5	Applied Chemistry Lab	Applied Chemistry Lab	0
6	Communicative English Lab	Communicative English Lab	0
7	Workshop Practice Lab	Workshop practice Lab	0
8	Applied Physics	Applied Physics	30
9	Differential Equations and vector Calculus	Differential Equations and Complex Analysis	30
10	Engineering Graphics	Engineering Graphics	0
11	Electrical circuits - I	Fundamentals of Electrical Circuits	60
12	Applied Physics Lab	Applied Physics Lab	0
13	Indian Constitution	Indian Constitution	0
14	Electronic Devices and Circuits	Electronic Devices and Circuits	0
15		Thermal and Fluid Engineering Lab	100
16		C Programming and Data Structures	100
17		C Programming and Data Structures Lab	100

### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
EEE B.Tech I Year	17	27.94

### 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	C Programming and Data Structures	20CS0501	Skill development
2	Fundamentals of Electrical Circuits	20EE0201	Employability



3	Electronic Devices and Circuits	20EC0402	Employability
4	Communicative English	20HS0810	Skill development
5	Thermal and Fluid Engineering	20ME0353	Skill development
6	Engineering Graphics	20ME0301	Employability
7	Thermal and Fluid Engineering Lab	20ME0354	Skill development
8	C Programming and Data Structures Lab	20CS0502	Skill development
9	workshop practice lab	20ME0302	Employability
10	Indian constitution	20HS0816	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: 2**

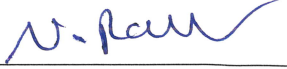

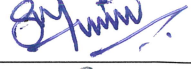



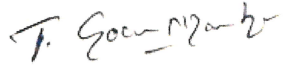
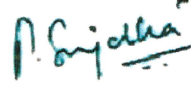

To prepare panel of examiners and paper setters for I B.Tech. that comes under R20

**Resolution: 2**

Approved the panel of examiners prepared for valuation and panel of question paper setters (given in Annexure–III respectively) 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 (Instrumentation & Control)	Chairman	
2	Prof. P.Chandra Sekhar	Professor (Power Systems)	Member	
3	Mr.S.Muni Sekhar	Associate Professor (Power Electronics)	Member	
4	Mr.T.Madhurantaka	Associate Professor (Power Electronics)	Member	
5	Mrs R Lakshmi	Associate Professor (Power Systems)	Member	
6	Dr. P. Lakshmi	Professor Department of EEE Anna University, Chennai	Member	
7	Dr T Gouri Manohar	Professor Department of EEE, S V University, Tirupati	Member	
8	Dr. P Sujatha	Professor Department of EEE, JNTUA, Anantapuramu	Member	
9	Mr.S V Mahesh Babu	Assistant Divisional Engineer, AP Transco, Chittoor	Member	
10	Miss K Yamini	Assistant Engineer, AP Transco, Chittoor	Member	