

Agenda for 10th Meeting of Board of Studies for M.Tech.
in Power Electronics and Drives, on 10-06-2019 @ 2:30 PM

1. Action taken report on minutes/ resolutions of 9th BOS meeting.
2. Report on implementation of autonomy with respect to Syllabi and Regulations (SVEC16 I-I, I-II, II-I, II-II of M.Tech.).
3. M. Tech. Academic Calendar for 2019-20.
4. Vision and Mission of the Department, PEOs, POs and PSOs
5. Course Structure and Syllabi with Course Objectives & Outcomes and Lesson Plans of Courses of M. Tech (PED)
6. Teaching, Learning and Evaluation
7. Research Activities
8. Faculty Development Activities
9. Staff Development Activities
10. Student Development Activities
11. Co-curricular Activities
12. Student Support Activities
13. Extension Activities
14. Any other item


Dr. T. Nageswara Prasad
Chairman (BOS)

**Board of Studies for
M. Tech. in Power Electronics and Drives
10th Meeting held on 11th June, 2019**

Minutes of meeting:

BoS Members:

S. No.	Name	Designation
1	Dr. T. Nageswara Prasad Professor, Head, Dept. of EEE, SVEC	Chairman
2	Dr. V. Ganesh Professor of Electrical and Electronics Engineering JNTU College of Engineering, Pulivendula YSR Kadapa (dt.)	JNTUA Nominee (Academics)
3	Dr. G. V. Marutheswar Professor of Electrical Engineering, SV University College of Engineering, Tirupathi - 517 502	External Member (Academics)
4	Dr. S. Sivanagaraju Professor of EEE, JNTU college of Engineering Kakinada, Kakinada, East Godavari (Dt.) - 533 006	External Member (Academics)
5	Mr. P. Sessa Sai Kumar Senior Engineer - Power Electronics, Enstin Labs, 14A & 15A, 1 st Floor, Emerald Chambers, Green Park Layout, Ramamurthy Nagar Main Road, Banaswadi Bengaluru - 560 043	External Member (Industry)
6	Mr. V. Sreedeeep Senior Lead Engineer Intel India Pvt. Ltd., No. 23-56, Devarabeesanahalli Outer Ring Road Varthur, Hobli Bangalore - 560 103	External Member (Alumni)
7	Dr. M.S. Sujatha Professor, Dept. of EEE, SVEC	Internal Member
8	Dr. P. Umapathi Reddy Professor, Dept. of EEE, SVEC	Internal Member
9	Dr. S. Hema Chandra Professor, Dept. of EEE, SVEC	Internal Member
10	Dr. N.M.G. Kumar Professor, Dept. of EEE, SVEC	Internal Member
11	Dr. S. Farook Associate Professor, Dept. of EEE, SVEC	Internal Member
12	Dr. E. Parimala Sundar Associate Professor, Dept. of EEE, SVEC	Internal Member

S. No.	Name	Designation
13	Dr. G. Hari Krishnan Associate Professor, Dept. of EEE, SVEC	Internal Member
14	Dr. V. Arun Associate Professor, Dept. of EEE, SVEC	Internal Member
15	Dr. Avagaddi Prasad Associate Professor, Dept. of EEE, SVEC	Internal Member
16	Dr. I. Kumara Swamy Associate Professor, Dept. of EEE, SVEC	Internal Member
17	Dr. P. Srinivasa Rao Associate Professor, Dept. of EEE, SVEC	Internal Member
18	Dr. A. Yasmine Begum Associate Professor, Dept. of EEE, SVEC	Internal Member
19	Dr. D. Suresh Babu Assistant Professor, Dept. of EEE, SVEC	Internal Member
20	Mr. M. Manohara Associate Professor, Dept. of EEE, SVEC	Internal Member

1. Action Taken Report on minutes / resolutions of 9th BoS Meeting:

The Chairman, BoS Dr. T. Nageswara Prasad presented the report on the action taken on resolutions of BoS meeting held on 26th May 2018. **(Annexure-I)** After deliberations the members ratified the report.

2. Report on implementation of Autonomy with respect to syllabi and Regulations (SVEC-16 I-I, I-II, II-I, II-II of M.Tech.)

The Chairman BoS presented a report on implementation of autonomy pertaining to M.Tech (PED) for the students admitted from the AY 2019-2020. **(Annexure-II)** The members of the BoS were appraised the feedback of the students and the faculty on the courses of I, II, III & IV Semester M.Tech. (PED).

3. M.Tech Academic Calendars for 2019-20

The Chairman BoS presented the academic calendars for III and IV Semester M.Tech. for the academic year 2019-'20. **(Annexure-III)** The same is recommended to Academic Council without any modification.

4. Vision and Mission of the Department, PEOs, POs and PSOs

The Chairman, BoS has appraised the members about the Vision & Mission of the dept. and PEOs, POs & PSOs of M.Tech. (PED). The members approved the Vision & Mission of the dept. and PEOs, POs & PSOs of M.Tech (PED). The approved vision, Mission PEOs of M.Tech. (PED) program under SVEC19 regulations is sent to the Academic Council for perusal and ratification. **(Annexure-IV)**

5. Course Structure and Syllabi with course Objectives & Outcomes and Lesson Plans of Courses of M.Tech. (PED)

The committee discussed the Model Curriculum-2018, Course Structure and Syllabi suggested by AICTE. The Course Structure prepared in-line with AICTE Model Curriculum-2018 is presented and discussed in the BoS meeting. The following are the observations and suggestions made by the board on the syllabi and course structure proposed by SVEC:

- To change Electric Drives System as Electrical System Drives.
- To change Electric and Hybrid Electric Vehicles as Hybrid Electric Vehicles.
- To reduce few topics in each unit in the course of Multilevel Inverter.
- In the course of Hybrid Electric Vehicles, write according to the topic specific units.

The revised course structure incorporating the suggestions is approved. **(Annexure-V)** The board authorizes the Chairman, BoS to prepare and submit the Model question papers and panel of question paper setters for theory courses as and when demanded by the Chairman, Academic Council or Chief Controller of Exams.

6. Teaching, Learning and Evaluation

The Chairman BoS presented the teaching, learning and evaluation practices followed in the department. The members of BOS appreciated the good practices being followed by the department. The Assessment manual is discussed and ratified by the BoS and is sent to the Academic Council for approval.

7. Research Activities

The Chairman BOS briefed the members about the state-of-the art equipment procured for research purpose, proposals submitted by the faculty for research funding and the publications made by the faculty of EEE. The members appreciated the efforts made by the faculty and department.

8. Faculty Development Activities

The Chairman appraised the board about the research publications/ presentations by the faculty, faculty incentives, FDPs attended, FDPs organized, and student feedback on faculty. The members have appreciated the efforts of the department and suggested to continue the same. The Chairman BoS assured the members that the efforts in this direction will be intensified.

9. Staff Development Activities

The board is appraised with the information about staff development programs organized and attended. The members have appreciated the efforts of the department and suggested to continue the same.

10. Students Development Activities

The members perused and noted the information provided on Guest and Expert Lectures organized, Add-on/workshop courses conducted and student paper publications. The members appreciated the student centric activities of the department.

11. Co-curricular Activities

The co-curricular activities for students of M.Tech. is less. Conduct more programs to groom their hidden talents.

12. Student Support Systems

The members noted the information on good practices. The board congratulated the department for organizing good number of student development programs.

13. Extension Activities

The members have perused, noted and appreciated the efforts of department / college in organizing professional, technical and community development activities. The BoS members have suggested continuing the same. They suggested to encourage students to participate in more number of community activities so that they get integrated with society.

14. Any other item

Members suggested to

- a. Conduct skill oriented courses as add-on for students.
- b. Organize certificate programs.
- c. arrange internships for students to increase their employability.
- d. Inculcate research culture in the interested students and counsel them to register for Ph.D.

Members appreciated the pro-active approach of college management and efforts taken by department for the growth of the department.

BoS chairman is empowered to change the context of the syllabus as on when required with the information to the BoS members.

BoS Members Present:

S. No.	Name	Designation	Signature
1	Dr. T. Nageswara Prasad Professor, Head, Dept. of EEE, SVEC	Chairman	<i>T. N. Prasad</i>
2	Dr. V. Ganesh Professor Department of Electrical Engineering JNTUA College of Engineering, Pullivendula, JNTUA, Ananthapuramu.	JNTUA Nominee (Academics)	<i>V. Ganesh</i>
3	Dr. G. V. Marutheswar Professor Department of Electrical Engineering, SV University College of Engineering, Tirupathi	External Member (Academics)	-
4	Dr. S. Sivanagaraju Professor, Department of EEE, JNTUA College of Engineering, Kakinada, JNTUK, Kakinada.	External Member (Academics)	-
5	Mr. V. Sreedeeep Senior Lead Engineer, Intel India Pvt. Ltd., Bangalore	External Member (Industry)	-
6	Mr. P. Sessa Sai Kumar Senior Engineer Power Electronics, Enstin Labs, Bangalore	Alumni (Industry)	-
8	Dr. M.S. Sujatha Professor, Dept. of EEE, SVEC	Internal Member	<i>M.S. Sujatha</i>
7	Dr. P. Umapathi Reddy Professor, Dept. of EEE, SVEC	Internal Member	<i>P. Umapathi Reddy</i>
10	Dr. S. Hema Chandra Professor, Dept. of EEE, SVEC	Internal Member	<i>S. Hema Chandra</i>
9	Dr. N.M.G. Kumar Professor, Dept. of EEE, SVEC	Internal Member	<i>N.M.G. Kumar</i>
11	Dr. S. Farook Assoc. Professor, Dept. of EEE, SVEC	Internal Member	<i>S. Farook</i>
12	Dr. E. Parimala Sundar Assoc. Professor, Dept. of EEE, SVEC	Internal Member	<i>E. Parimala Sundar</i>
13	Dr. G. Hari Krishnan Assoc. Professor, Dept. of EEE, SVEC	Internal Member	<i>G. Hari Krishnan</i>
14	Dr. V. Arun Assoc. Professor, Dept. of EEE, SVEC	Internal Member	<i>V. Arun</i>
17	Dr. Avagaddi Prasad Assoc. Professor, Dept. of EEE, SVEC	Internal Member	<i>Avagaddi Prasad</i>
15	Dr. I. Kumara Swamy Assoc. Professor, Dept. of EEE, SVEC	Internal Member	<i>I. Kumara Swamy</i>
16	Dr. P. Srinivasa Rao Assoc. Professor, Dept. of EEE, SVEC	Internal Member	<i>P. Srinivasa Rao</i>
17	Dr. A. Yasmine Begum Assoc. Professor, Dept. of EEE, SVEC	Internal Member	<i>A. Yasmine Begum</i>
18	Dr. D. Suresh Babu Asst. Professor, Dept. of EEE, SVEC	Internal Member	<i>D. Suresh Babu</i>
19	Mr. M. Manohara Assoc. Professor, Dept. of EEE, SVEC	Internal Member	<i>M. Manohara</i>

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

SREE SAINATH NAGAR, A. RANGAMPET -517 102.

Department of Electrical and Electronics Engineering

Approved Course Structure

Program: M.Tech. – Power Electronics and Drives

Regulations: SVEC – 19

I-Semester

S. No.	Course Code	Course Title	Contact Hours per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT18301	Dynamics of Electrical Machines	3	-	-	3	3	40	60	100
2	19MT18302	Power Electronic Converters	3	-	-	3	3	40	60	100
3	19MT18303	Power Semiconductor Devices and Modeling	3	-	-	3	3	40	60	100
4	Program Elective – 1									
	19MT10704	High Voltage DC Transmission	3	-	-	3	3	40	60	100
	19MT18304	Control System Design								
	19MT18305	Intelligent Controllers								
19MT18306	Microcontroller and Applications									
5	Program Elective – 2									
	19MT10705	Digital Signal Processing	3	-	-	3	3	40	60	100
	19MT10706	Power Quality								
	19MT10707	Smart Grids								
19MT18307	Electromagnetic Field Computation and Modeling									
6	19MT10708	Research Methodology and IPR	2	-	-	2	2	40	60	100
7	19MT18331	Power Electronics Design Lab	-	-	4	4	2	50	50	100
8	19MT18332	Power Electronics Simulation Lab	-	-	4	4	2	50	50	100
Total			17	-	8	25	21	340	460	800
8	19MT1AC01	Technical Report Writing	2	-	-	2	-	-	-	-

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Department of Electrical and Electronics Engineering

II-Semester

S. No.	Course Code	Course Title	Contact Hours per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT28301	Digital Control of Power Electronics and Drive Systems	3	-	-	3	3	40	60	100
2	19MT28302	Electrical Drives	3	-	-	3	3	40	60	100
3	Program Elective - 3									
	19MT28303	Advanced Power Electronic Circuits								
	19MT28304	Multilevel Inverters	3	-	-	3	3	40	60	100
	19MT28305	Solar Energy Conversion Systems								
	19MT28306	Special Electrical Machines								
4	Program Elective - 4									
	19MT20706	Flexible AC Transmission System								
	19MT28307	Hybrid Electric Vehicles	3	-	-	3	3	40	60	100
	19MT28308	Switched Mode Power Supplies and UPS								
	19MT28309	Wind Energy Conversion Systems								
5	19MT2MOOC	Open Elective (MOOC)	-	-	-	-	3	-	100	100
6	19MT28331	Electrical Drives Lab	-	-	4	4	2	50	50	100
7	19MT28332	Electrical Drives Simulation Lab	-	-	4	4	2	50	50	100
		Total	12	-	8	20	19	260	440	700
8	19MT2AC01	Statistics with R	2	-	-	2	-	-	-	-

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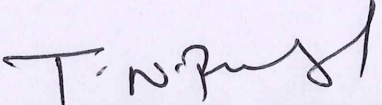
Department of Electrical and Electronics Engineering

III-Semester

S. No.	Course Code	Course Title	Contact Hours per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT38331	Internship	-	-	-	-	2	-	100	100
2	19MT38332	Project Work Phase-I	-	-	-	-	10	50	50	100
Total			-	-	-	-	12	50	150	200

IV-Semester

S. No.	Course Code	Course Title	Contact Hours per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT48331	Project Work Phase-II	-	-	-	-	16	150	150	300
Total			-	-	-	-	16	150	150	300
Total Credits:						68	Total Marks:		2000	


CHAIRMAN, BOS-EEE



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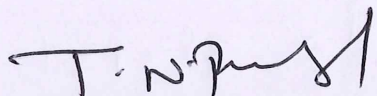
Department of Electrical and Electronics Engineering

LIST OF NEW COURSES INTRODUCED

Program: M.Tech.- Power Electronics and Drives

Regulations: SVEC – 19

19MT18304	Control System Design
19MT10705	Digital Signal Processing
19MT18307	Electromagnetic Field Computation and Modeling
19MT10708	Research Methodology and IPR
19MT1AC01	Technical Report Writing
19MT28301	Digital Control of Power Electronics and Drive Systems
19MT28303	Advanced Power Electronic Circuits
19MT28304	Multilevel Inverters
19MT28305	Solar Energy Conversion Systems
19MT28308	Switched Mode Power Supplies and UPS
19MT28309	Wind Energy Conversion Systems
19MT2AC01	Statistics with R


CHAIRMAN, BOS-EEE