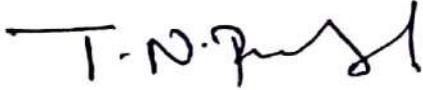


Agenda for 10th Meeting of Board of Studies for M. Tech.
in Electrical Power Systems, on 11-06-2019 @ 9:30 AM

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(EPS)
6. Teaching, Learning, 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. Assessment manual
15. Any other item.


Dr. T. Nageswara Prasad
Chairman (BOS)

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Salnath Nagar, A. Rangampet-517 102

Department of Electrical & Electronics Engineering

Meeting of Board of Studies
M. Tech. in Electrical Power Systems

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 9thBoS 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. (EPS) 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. (EPS).

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 appraised the members about the Vision & Mission of the dept. and PEOs, POs & PSOs of M.Tech. (EPS). The members approved the Vision & Mission of the dept. and PEOs, POs & PSOs of M.Tech (EPS). The approved vision, Mission PEOs of M.Tech. (EPS) 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. (EPS)

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 made by the board on the syllabi and course structure proposed by SVEC under SVEC-19 regulations. The members of the BOS suggested to

- introduce the topics solar converters, microgrid structure, solar emulator in the course Solar Energy Conversion Systems.
- verify the textbook, Engineering Optimization by Kalyan Moy Deb for Genetic Algorithm in the course intelligent controllers.
- The block diagram & flow chart approach has to be mentioned for the relays in unit-V and the algorithms have to be separated in the course Static and Digital Protection of Power System.
- Verify the textbook, Computational Techniques for Voltage Stability Assessment and Control Venkataraman Ajarapu for the course Power System Modeling and Control for unit-V.
- The syllabus of Smart Grids has to modify as it is lengthy like removal of standards in unit-V, add Introduction to TCP/IP in unit-IV and rewrite the existing as overview to energy storage technologies in unit-II.
- Removal of Distribution transformer and role of capacitor in wind mill generator in Unit-V and the IEEE/IEC standards in unit-III in the course of Reactive Power Compensation and Management.
- Include Voc, Isc , SoS Characteristics, point of common coupling or impact of harmonics in unit-III and remove pumped hydroelectric energy storage in unit-IV in the course of Solar Energy Conversion Systems
- Reframe the syllabus of Power System Planning and Reliability as planning two units and reliability three units.
- Modify unit-V in the course of Flexible AC Transmission System.
- Modify unit-IV in the course of Wind Energy Conversion Systems

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 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.

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

S. No.	Name	Designation	
1	Dr. T. Nageswara Prasad	Chairman	T.N-Prasad
2	Dr. V. Ganesh Professor	JNTUA Nominee (Academics)	U.farr
3	Dr. G. V. Marutheswar Professor of Electrical Engineering,	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. Sesa Sai Kumar Senior Engineer - Power Electronics,	External Member (Industry)	-
6	Mr. V. Sreedeeep Senior Lead Engineer	External Member (Alumni)	-
7	Dr. M.S. Sujatha Professor, Dept. of EEE, SVEC	Internal Member	M.S-Sujatha
8	Dr. P. Umamathi Reddy Professor, Dept. of EEE, SVEC	Internal Member	P. Umamathi Reddy
9	Dr. S. Hema Chandra Professor, Dept. of EEE, SVEC	Internal Member	S. Hema Chandra
10	Dr. N.M.G. Kumar Professor, Dept. of EEE, SVEC	Internal Member	N.M.G. Kumar
11	Dr. S. Farook Associate Professor, Dept. of EEE, SVEC	Internal Member	S. Farook
12	Dr. E. Parimala Sundar Associate Professor, Dept. of EEE, SVEC	Internal Member	E. Parimala Sundar
13	Dr. G. Hari Krishnan Associate Professor, Dept. of EEE, SVEC	Internal Member	G. Hari Krishnan
14	Dr. V. Arun Associate Professor, Dept. of EEE, SVEC	Internal Member	V. Arun
15	Dr. Avagaddi Prasad Associate Professor, Dept. of EEE, SVEC	Internal Member	A. Prasad
16	Dr. I. Kumara Swamy Associate Professor, Dept. of EEE, SVEC	Internal Member	I. Kumara Swamy
17	Dr. P. Srinivasa Rao Associate Professor, Dept. of EEE, SVEC	Internal Member	P. Srinivasa Rao
18	Dr. A. Yasmine Begum Associate Professor, Dept. of EEE, SVEC	Internal Member	A. Yasmine Begum
19	Dr. D. Suresh Babu Assistant Professor, Dept. of EEE, SVEC	Internal Member	D. Suresh Babu
20	Mr. M. Manohara Associate Professor, Dept. of EEE, SVEC	Internal Member	M. Manohara

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

SREE SAINATH NAGAR, A. RANGAMPET -517 102.

Department of Electrical and Electronics Engineering

Approved Course Structure

Program: M.Tech. – Electrical Power Systems

Regulations: SVEC – 19

I-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT10701	High Voltage Engineering	3	-	-	3	3	40	60	100
2	19MT10702	Power Electronics for Power Systems	3	-	-	3	3	40	60	100
3	19MT10703	Power System Security and State Estimation	3	-	-	3	3	40	60	100
Program Elective - 1										
4	19MT18304	Control System Design	3	-	-	3	3	40	60	100
	19MT18305	Intelligent Controllers								
	19MT18306	Microcontroller and Applications								
	19MT10704	High Voltage DC Transmission								
Program Elective - 2										
5	19MT18307	Electromagnetic Field Computation and Modeling	3	-	-	3	3	40	60	100
	19MT10705	Digital Signal Processing								
	19MT10706	Power Quality								
	19MT10707	Smart Grids								
6	19MT10708	Research Methodology and IPR	2	-	-	2	2	40	60	100
7	19MT10731	High Voltage Engineering Lab	-	-	4	4	2	50	50	100
8	19MT10732	Power System Analysis - I Lab	-	-	4	4	2	50	50	100
Total			17	-	8	25	21	340	460	800
9	19MT1AC01	Technical Report Writing	2	-	-	2	-	-	-	-

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

SREE SAINATH NAGAR, A. RANGAMPET -517 102.

Department of Electrical and Electronics Engineering II-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT20701	Power System Modeling and Control	3	-	-	3	3	40	60	100
2	19MT20702	Static and Digital Protection of Power System	3	-	-	3	3	40	60	100
3	Program Elective - 3									
	19MT28305	Solar Energy Conversion Systems								
	19MT20703	EHVAC Transmission								
	19MT20704	Power System Automation	3	-	-	3	3	40	60	100
	19MT20705	Reactive Power Compensation and Management								
4	Program Elective - 4									
	19MT28309	Wind Energy Conversion Systems								
	19MT20706	Flexible AC Transmission System	3	-	-	3	3	40	60	100
	19MT20707	Power System Deregulation								
	19MT20708	Power System Planning and Reliability								
5	19MT2MOOC	Open Elective (MOOC)	-	-	-	-	3	-	100	100
6	19MT20731	Power System Analysis - II Lab	-	-	4	4	2	50	50	100
7	19MT20732	Power Systems and Protection 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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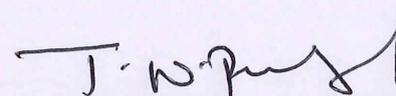
Department of Electrical and Electronics Engineering

III-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT30731	Internship	-	-	-	-	2	-	100	100
2	19MT30732	Project Work Phase - I	-	-	-	-	10	50	50	100
Total			-	-	-	-	12	50	150	200

IV-Semester

S. No.	Course Code	Course Title	Contact Periods per Week				Credits	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1	19MT40731	Project Work Phase - II	-	-	-	-	16	150	150	300
Total			-	-	-	-	16	150	150	300
Grand Total Credits:						68	Grand Total Marks:		2000	


CHAIRMAN, BOS-EEE

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

SREE SAINATH NAGAR, A. RANGAMPET -517 102.

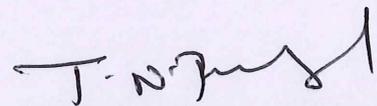
Department of Electrical and Electronics Engineering

LIST OF NEW COURSES INTRODUCED

Program: M.Tech.- Electrical Power Systems

Regulations: SVEC – 19

19MT10702	Power Electronics for Power Systems
19MT18304	Control System Design
19MT18307	Electromagnetic Field Computation and Modeling
19MT10705	Digital Signal Processing
19MT10708	Research Methodology and IPR
19MT1AC01	Technical Report Writing
19MT28305	Solar Energy Conversion Systems
19MT20704	Power System Automation
19MT28309	Wind Energy Conversion Systems
19MT2AC01	Statistics with R



CHAIRMAN, BOS-EEE