

Meeting of
Board of Studies
Electrical and Electronics Engineering
on
27th March, 2017

Minutes of the Meeting:

Members Present:

S. No.	Name	Designation
1	Dr. T. Nageswara Prasad Professor, Head, Dept. of EEE, SVEC	Chairman
2	Dr. K. Vaisakh Professor, Department of Electrical Engineering, Andhra University College of Engineering, Andhra University	External Member (Academics)
3	Dr. R. P. Kumudini Devi Professor, Dept. of EEE, Power System Engineering Division, Anna University	External Member (Academics)
4	Mr. Sreevatsav RSSD Alstom Transport Pvt. Ltd., Bangalore	Alumni (Industry)
5	Dr. P. Umapathi Reddy Professor, Dept. of EEE, SVEC	Internal Member
6	Dr. M.S. Sujatha Professor, Dept. of EEE, SVEC	Internal Member
7	Dr. N.M.G. Kumar Professor, Dept. of EEE, SVEC	Internal Member
8	Dr. S. Hema Chandra Professor, Dept. of EEE, SVEC	Internal Member
9	Dr. K. Venkatesan Professor, Dept. of EEE, SVEC	Internal Member
10	Dr. R. Selvarasu 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
13	Mr. M. Manohara Associate Professor, Dept. of EEE, SVEC	Internal Member

1. Dr. T. Nageswara Prasad, chairman BoS, EEE has

- presented the resources, strengths and achievements of the department during the academic year 2016-17.
- presented the need for introduction of new programme M.Tech. (Power Electronics and Drives). Also, appraised the members that application has been submitted to AICTE, New Delhi for introducing the program M.Tech. (PED) from the AY 2017-2018 under SVEC-16 regulations.

2. Action taken report on minutes/ resolutions of 7th BOS meeting:

The chairman Dr.T.Nageswara Prasadhas presented the report on action taken on the resolutions made in the BoS meeting held on 23rd April, 2016.

3. Report on implementation of autonomy for M.Tech. Programme.

SVEC-16 regulations have been under implementation for M.Tech. (EPS) for the students admitted from the AY 2016-2017. The members of the BOS were appraised the feedback of the students and the faculty on the courses of I-Semester M.Tech. (EPS).

4. M. Tech. (PED) Course Structure & Vision and Mission of the Department:

The chairman Dr. T. Nageswara Prasad has presented

- Vision and Mission of department.
- the program objectives and outcomes, and also presented the program specific outcomes of the program.
- the pre-requisites for various courses of M.Tech. (PED).
- The proposed course structure for I and II year M. Tech. (PED) program under SVEC-16 regulations in line with the program outcomes for approval.
- the tentative timetable for approval.

After detailed discussion on the course structure, the Board of Studies members have made the following suggestions for possible amendment in the course structure:

- to include the course Applied Mathematics in I semester of M.Tech. (PED).
- to change course title as special electrical machines instead of special machines and their controllers in I Year, II semester.

The Course structure is thus approved with the above said suggestions and the finalized course structure is attached as Annexure-M1.

5. M. Tech. (PED) Syllabi for the course:

The chairman Dr. T. Nageswara Prasad has presented the detailed syllabus, Lesson plans for various courses of M.Tech. (PED) under SVEC-16 regulations. After detailed discussion on the Syllabus, the Board of Studies members have made the following suggestions on the syllabus:

- a) consider the following aspects in the course advanced power semiconductor devices,
- b) remove the following content in unit II
 - construction, steady state characteristics, turn-on methods, gate characteristics, switching characteristics, two transistor analogy and series, and parallel operation of thyristor.
 - increase the number of periods required for handling unit III.
- c) consider the following aspects in the course analysis of power converters,
 - include single phase and three phase dual converter in unit I
 - introduce Power factor correction rectifiers in Unit-V by removing Cycloconverters.
- d) confirm a detailed syllabus for the course modelling of electrical machines in unit II.
- e) add the topics SMPS applications and OFF line and ON line UPS in the course Analysis of Inverters
- f) Advanced control systems course is to be renamed as Linear and Non-Linear system Theory and include the concepts of nonlinear control such as P, PI, fractional control, hysteresis control, Sliding mode and switching surface control and Time Delay control for the course.
- g) change the text book author name as R. Krishnan by Electric motor drives for the course modelling of electrical machines.
- h) confirm the overall content of the course Power Electronics in Renewable Energy Systems.
- i) reconsider the unit II title as stepper motors in place of stepping motors for the course special electrical machines.
- j) consider the text book Power Electronics by Ned Mohan for the courses analysis of inverters and analysis of power converters.
- k) consider the text book Power Electronics by M D Singh as a reference book for the courses analysis of inverters and analysis of power converters.
- l) consider the following aspects in the course Power Electronics lab,
 - o experiment shall be conducted using the breadboard avoiding hardware kits.
 - o selection of switching devices for different applications using data sheets

The members appreciated the pro-active approach of college management and efforts taken by department

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2	Dr. K. Vaisakh Professor, Department of Electrical Engineering, Andhra University College of Engineering, Andhra University	External Member (Academics)	Vaisakh
3	Dr. R. P. Kumudini Devi Professor, Dept. of EEE, Power System Engineering Division, Anna University	External Member (Academics)	R.P. Kumudini Devi
4	Mr. Sreevatsav RSSD Alstom Transport Pvt. Ltd., Bangalore	Alumni (Industry)	Sreevatsav
5	Dr. P. Umapathi Reddy Professor, Dept. of EEE, SVEC	Internal Member	Umapathi
6	Dr. M.S. Sujatha Professor, Dept. of EEE, SVEC	Internal Member	M.S. Sujatha
7	Dr. N.M.G. Kumar Professor, Dept. of EEE, SVEC	Internal Member	N.M.G. Kumar
8	Dr. S. Hema Chandra Professor, Dept. of EEE, SVEC	Internal Member	S. Hema Chandra
9	Dr. K. Venkatesan Professor, Dept. of EEE, SVEC	Internal Member	K. Venkatesan
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12	Dr. E. Parimala Sundar Associate Professor, Dept. of EEE, SVEC	Internal Member	E. Parimala Sundar
13	Mr. M. Manohara Associate Professor, Dept. of EEE, SVEC	Internal Member	M. Manohara