7th Meeting of Board of Studies in Electronics and Instrumentation Engineering
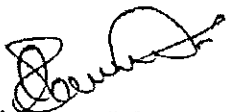## On 22.04.2016 @ 10 am

AGENDA

1. Action taken report on minutes/ resolutions of 6th BOS meeting.

2. Report on implementation of autonomy with respect to syllabi and regulations (SVEC14 II B. Tech.).

3. B. Tech. Academic Calendar for 2016-17.

4. Vision and Mission of the Department, PEOs, POs & PSOs and Course Structure of B. Tech. Program.

5. Syllabi with Course Objectives & Outcomes, Lesson Plans and Question Banks of Courses of I B. Tech SVEC16.

6. Panel of paper setters for I & II Semester Courses of III B. Tech SVEC14 regulations

7. Teaching, Learning and Evaluation.

8. Research Activities.

9. Faculty Development Activities.

10. Staff Development Activities.

11. Student Development Activities.

12. Student Support Systems.

13. Extension Activities.

14. Any other item.

Chairman, BOS in EIE

Department of Electronics and Instrumentation Engineering

7th **Board of Studies Meeting held on 22nd April 2016 at 10.00 am**

Minutes

Members Present:

1	Dr. M. Saravanan	Chairman
2	Dr. A. Bhujanga Rao	External Member (Academics)
3	Dr. K. Srinivasan	External Member (Academics)
4	Dr. P. Thirusakthimurugan	External Member (Academics)
5	Mr. A. Jaswanth	External Member (Alumni)
6	Prof. N.Gireesh	Internal Member
7	Dr. B. Polaiah	Internal Member
8	Mr. C.Ravindra Murthy	Internal Member
9	Ms. A.Yasmine Begum	Internal Member
10	Mr. M.Balaji	Internal Member

1. **Action taken report on minutes / resolutions of BOS Meeting held on 11-04-2015**

   Resolved to ratify Action Taken Report on minutes / resolutions of the 6th BOS meeting submitted by the Chairman, BOS (EIE). (Refer Annexure – I)

2. **Report on implementation of autonomy**

   Chairman BOS presented a report on implementation of autonomy to the members. The board has congratulated the college authorities for successful implementation of SVEC 14 syllabus for II Year. (Refer Annexure-II).

3. **Academic Calendar**

   It was resolved to approve the academic calendar of II, III and IV B.Tech. for the academic year 2016-2017. (Refer Annexure-III)

4. PEOs, POs and PSO's of the Program

Resolved the Vision, Mission, PEOs, POs and PSO's of the U.G. Program after thorough discussion. (Refer Annexure IV)

5. Course Structure for SVEC16 and I B.Tech Syllabi

Chairman, BOS(EIE) presented the course structure of SVEC16 and syllabi of I B.Tech EIE to the members. It is resolved to accept the course structure of SVEC16 and syllabi of I B.Tech EIE after thorough discussion and taking into consideration of the suggestions and remarks given by the members.

6. Model question papers and Panel of question paper setters.

Model question papers and panel of question paper setters of theory subjects was presented to the members. It is resolved to authorize the Chairman, BOS (EIE) to make changes if necessary in panel of question paper setters for each theory subject and submit panel of question paper setters and model question papers to the Principal well in advance of the commencement of class work.

7. Teaching, Learning and Evaluation Practices

The members of BOS have appreciated the good practices followed by the department in the conduct of diagnostic, formative tests, remedial and reinforcement classes as well as offering of the necessary add on courses as desired.

8. Research Activities

The Chairman, BOS(EIE) has briefed the members on research activities taken in the Department. The Chairman also submitted the details of Faculty publications in refereed Journals and Technical talk delivered during the academic year.

9. Faculty Development Activities

Members appreciated the faculty development activities in the department, presented by the Chairman, BOS (EIE). Faculty feedback mechanism and action taken on faculty who got less feedback was appreciated. The BOS discussed the Training Need Analysis of the faculty and staff presented by the Chairman. Resolved to authorize the head of the department to update TNA as and when required.

10. Student Development Activities

The Chairman, BOS (EIE) submitted the details of student development activities such as equity action plan & remediation, guest/expert lectures organized, student paper presentations & publications and technical association activities. Members have expressed their satisfaction regarding the student development.

11. Student Support

The Chairman, BOS(EIE) presented the student support activities such as training programs, placement activities, student counseling, etc. carried out in the academic year 2015-16. The members have appreciated the efforts and suggested to continue.
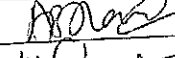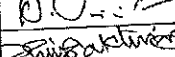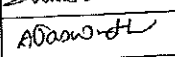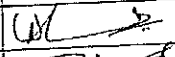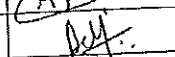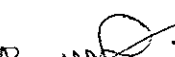
12. Suggestions given by BOS members on SVEC16 Course structure
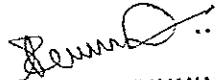
a) Rename Logic and Distributed Control System into Industrial Automation in IV-I
b) Rename Network Analysis as Circuit Theory in I-I
c) Add Introduction to Laplace Transform in Unit-III in Network Analysis subject
d) STLD may be renamed as Digital Electronics in II-I
e) Rename the Analog and Digital Design Lab in II-I
f) Introduce one credit courses like Industrial Lecture / Industrial Training.

13. Any other item

- Purchase Multifunction Calibration Test setup for Consultancy activities.
- Sign MOU with nearby industries for calibration of their instruments.
- Approach Yokogawa, Fluke and Beamex workstation for establishing their labs for center of excellence

Meeting concluded with thanks to the Chair.

S. No.	Name of the Member	Designation	Signature
1	Dr. M. Saravanan	Chairman	
2	Dr. A. Bhujanga Rao	External Member (Academics)	
3	Dr. K. Srinivasan	External Member (Academics)	
4	Dr. P. Thirusakthimurugan	External Member (Academics)	
5	Mr. A. Jaswanth	External Member (Alumni)	
6	Prof. N.Gireesh	Internal Member	
7	Dr. B. Polaiah	Internal Member	
8	Mr. C.Ravindra Murthy	Internal Member	
9	Ms. A.Yasmine Begum	Internal Member	
10	Mr. M.Balaji	Internal Member	

Dr. M.SARAVANAN
Chairman
BOS in EIE

SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)
Sree Sainath Nagar, Tirupati
Department of Electronics and Instrumentation Engineering

Approved Course Structure

Program: B.Tech.- Electronics and Instrumentation Engineering

Regulations: SVEC-14

Code	Subject	Periods per week			C	Scheme of Examination Max. Marks		
		L	T	P		Int.	Ext.	Total
I Year								
14BT1HS01	Technical English	2	-	-	4	30	70	100
14BT1BS01	Engineering Physics	2	1	-	4	30	70	100
14BT1BS02	Engineering Chemistry	2	1	-	4	30	70	100
14BT1BS03	Engineering Mathematics	3	1	-	6	30	70	100
14BT1BS04	Mathematical Methods	3	1	-	6	30	70	100
14BT1ES01	Programming in C and Data Structures	3	1	-	6	30	70	100
14BT1ES03	Computer-Aided Engineering Drawing	-	1	3	3	25	50	75
14BT1BS05	Engineering Physics and Engineering Chemistry Lab.	-	-	3	3	25	50	75
14BT1ES04	Programming in C and Data Structures Lab.	-	-	3	3	25	50	75
14BT1ES06	Engineering and IT Workshop	-	-	3	3	25	50	75
14BT1HS02	English Language Communication Skills Lab.	-	-	3	3	25	50	75
	TOTAL	**15**	**6**	**15**	**45**	**305**	**670**	**975**

Course Code	Course Title	Periods per week			C	Scheme of Examination Max. Marks		
		L	T	P		Int.	Ext.	Total
II Year – I Semester								
14BT3BS02	Special Functions & Complex Analysis	3	1	-	3	30	70	100
14BT3HS01	Environmental Sciences	3	1	-	3	30	70	100
14BT31001	Principles of Electrical Measurements	3	1	-	3	30	70	100
14BT31002	Sensors and Transducers	3	1	-	3	30	70	100
14BT30232	Network Analysis	3	1	-	3	30	70	100
14BT30402	Semiconductor Devices and Circuits	3	1	-	3	30	70	100
14BT31021	Measurements and Transducers Lab	-	-	3	2	25	50	75
14BT30421	Semiconductor Devices and Circuits Lab	-	-	3	2	25	50	75
	Total	18	6	6	22	230	520	750

Course Code	Course Title	Periods per week			C	Scheme of Examination Max. Marks		
		L	T	P		Int.	Ext.	Total
II Year – II Semester								
14BT4HS02	Professional Ethics	3	1	-	3	30	70	100
14BT50201	Control Systems	3	1	-	3	30	70	100
14BT30231	Electrical Technology	3	1	-	3	30	70	100
14BT40402	Electronic Circuit Analysis and Design	3	1	-	3	30	70	100
14BT40404	Signals and Systems	3	1	-	3	30	70	100
14BT40405	Switching Theory and Logic Design	3	1	-	3	30	70	100
14BT50405	Pulse and Digital Circuits	3	1	-	3	30	70	100
14BT41021	Analog and Digital Circuits Lab	-	-	3	2	25	50	75
14BT30222	Electrical Technology Lab	-	-	3	2	25	50	75
	Total	**21**	**7**	**6**	**25**	**260**	**590**	**850**

Course Code	Course Title	Periods per week			C	Scheme of Examination Max. Marks		
		L	T	P		Int.	Ext.	Total
III Year – I Semester								
14BT4HS01	Business Communication and Presentation Skills	3	1	-	3	30	70	100
14BT5HS01	Managerial Economics and Principles of Accountancy	3	1	-	3	30	70	100
14BT51001	Electronic Instrumentation	3	1	-	3	30	70	100
14BT51002	Industrial Instrumentation - I	3	1	-	3	30	70	100
14BT51003	Linear & Digital IC Applications	3	1	-	3	30	70	100
14BT50202	Computer Organization and Architecture	3	1	-	3	30	70	100
14BT60401	Digital Signal Processing	3	1	-	3	30	70	100
14BT51021	Linear & Digital IC Applications Lab	-	-	3	2	25	50	75
14BT51022	Signal Processing Lab	-	-	3	2	25	50	75
	Total	21	7	6	25	260	590	850
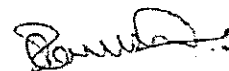
Course Code	Course Title	Periods per week			C	Scheme of Examination Max. Marks		
		L	T	P		Int.	Ext.	Total
III Year – II Semester								
14BT5HS02	Management Science	3	1	-	3	30	70	100
14BT61001	Industrial Instrumentation - II	3	1	-	3	30	70	100
14BT61002	Process Control Instrumentation	3	1	-	3	30	70	100
14BT60201	Microprocessors and Microcontrollers	3	1	-	3	30	70	100
14BT60431	Principles of Communication	3	1	-	3	30	70	100
Professional Elective – I								
14BT61003	a) Electromagnetic Theory	3	1	-	3	30	70	100
14BT61004	b) Industrial Electronics							
14BT70304	c) Industrial Automation & Robotics							
14BT41201	d) Object Oriented Programming							
14BT61021	Process Control Lab	-	-	3	2	25	50	75
14BT60222	Microprocessors and Microcontrollers Lab	-	-	3	2	25	50	75
	Total	**18**	**6**	**6**	**22**	**230**	**520**	**750**

Course Code	Course Title	Periods per week			C	Scheme of Examination Max. Marks		
		L	T	P		Int.	Ext.	Total
IV Year – I Semester								
14BT71001	Analytical Instrumentation	3	1	-	3	30	70	100
14BT71002	Biomedical Instrumentation	3	1	-	3	30	70	100
14BT71003	Logic and Distributed Control Systems	3	1	-	3	30	70	100
14BT60206	Advanced Control Systems	3	1	-	3	30	70	100
	Open Elective	3	1	-	3	30	70	100
Professional Elective – II								
14BT71004	a) Computer Control of Processes	3	1	-	3	30	70	100
14BT70205	b) Soft Computing Techniques							
14BT60403	c) VLSI Design							
14BT51201	d) Computer Networks							
14BT71021	Analytical & Biomedical Instrumentation Lab	-	-	3	2	25	50	75
14BT71022	Industrial Automation Lab	-	-	3	2	25	50	75
14BT71023	Seminar	-	-	-	2	-	50	50
Total		**18**	**6**	**6**	**24**	**230**	**570**	**800**

Offering Dept	Course Code	Course Title
BS&H	14BT6HS01	Banking and Insurance
BS&H	14BT6HS02	Cost Accounting and Financial Management
BS&H	14BT6HS03	Entrepreneurship for Micro, Small and Medium Enterprises
CE	14BT70105	Disaster Mitigation and Management
CE	14BT70106	Environmental Pollution and Control
CE	14BT70107	Contract Laws and Regulations
CE	14BT70108	Planning for Sustainable Development
CE	14BT70109	Rural Technology
ME	14BT60305	Artificial Intelligence and Robotics
ME	14BT60306	Global Strategy and Technology
ME	14BT60307	Intellectual Property Rights and Management
ME	14BT60308	Managing Innovation and Entrepreneurship
ME	14BT60309	Material Science
CSE	14BT60502	Engineering Systems Analysis and Design
EIE	14BT71005	Microelectromechanical Systems
IT	14BT61203	Bio-Informatics
IT	14BT61204	Cyber Security and Laws

Course Code	Course Title	Periods per week			C	Scheme of Examination Max. Marks		
		L	T	P		Int.	Ext.	Total
IV Year – II Semester								
14BT81001	Fiber Optics & Laser Instrumentation	3	1	-	3	30	70	100
14BT70402	Embedded Systems	3	1	-	3	30	70	100
Professional Elective - III								
14BT81002	a) Power Plant Instrumentation	3	1	-	3	30	70	100
14BT81003	b) Telemetry and Telecontrol							
14BT80431	c) DSP Processors and Architectures							
14BT60405	d) Image Processing							
Professional Elective - IV								
14BT81004	a) Aircraft Instrumentation	3	1	-	3	30	70	100
14BT81005	b) Automotive Instrumentation							
14BT81006	c) Instrumentation in Process Industries							
14BT80302	d) Mechatronics							
14BT81021	Comprehensive Viva -Voce	-	-	-	2	-	100	100
14BT81022	Project Work	-	-	20	10	60	140	200
Total		12	4	20	24	180	520	700

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Engineering College
(Autonomous)

Department of Electronics and Instrumentation Engineering

LIST OF NEW COURSES INTRODUCED

Program: B.Tech.- Electronics and Instrumentation Engineering

Regulations : SVEC-14

Course Code	Name of the Course
14BT60305	Artificial Intelligence and Robotics
14BT60306	Global Strategy and Technology
14BT60307	Intellectual Property Rights and Management
14BT60308	Managing Innovation and Entrepreneurship
14BT60309	Material Science
14BT6HS01	Banking and Insurance
14BT6HS02	Cost Accounting and Financial Management
14BT6HS03	Entrepreneurship for Micro, Small and Medium Enterprises
14BT70106	Environmental Pollution and Control
14BT70107	Contract Laws and Regulations
14BT70108	Planning for Sustainable Development
14BT70109	Rural Technology
14BT70205	Soft Computing Techniques
14BT81004	Aircraft Instrumentation
14BT81005	Automotive Instrumentation
14BT81006	Instrumentation in Process industries

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