



# SREE VAHINI INSTITUTE OF SCIENCE AND TECHNOLOGY

( AN AUTONOMOUS INSTITUTION )

(Approved by AICTE & Govt. of A.P., Affiliated to JNTU Kakinada)

Accredited by NAAC with "A" Grade, An ISO 9001:2015 Certified Institution

Sri Vahini Nagar, NH-30 . TIRUVURU, PIN: 521 235. NTR Dist. A.P. India.

Date: 11-10-2023.

## Agenda of the Board of Studies 1<sup>st</sup> Meeting to be held on 19-10-2023.

1. Approval of B.Tech EEE- Course Structure & Syllabus of I B.Tech I & II Sem
2. Approval of B.Tech EEE-Course outcomes of I B.Tech I & II Sem.
3. Information on R23 Regulations- U.G (B.Tech)
4. Approval of M.Tech Power Systems- Course Structure & Syllabus of I M. Tech I & II sem
5. Approval of M.Tech Power Systems-Course outcomes of I M.Tech I & II Sem.
6. Information on R23 Regulations- P. G (M.Tech-Power Systems)
7. Any other matter with permission of Chair.

### Online meeting Link:

**Sree Vahini Institute of Science & Technology (SVIST) is inviting you to a scheduled Zoom meeting.**

**Topic: 1<sup>st</sup> BOS Meeting-Department of EEE-SVIST Tiruvuru**


**Time: Oct 19, 2023 11:00 A. M India**

Join Zoom Meeting

<https://us06web.zoom.us/j/85240349798>

Meeting ID: 852 4034 9798

Find your local number: <https://us06web.zoom.us/u/kIutvjRf8>

  
BOS Chairperson  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
SREE VAHINI INSTITUTE OF SCIENCE & TECHNOLOGY  
TIRUVURU - 521 235, ANDHRA PRADESH



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## Department of Electrical & Electronics Engineering

### MINUTES OF 1<sup>st</sup> BOARD OF STUDIES MEETING

Virtual Mode, Date: 19-10-2023 @ 11.00 A.M

S. No	Name of the Member	Designation	Signature
1	Mr. K. Kiran Kumar	BOS-Chairman	
2	Dr. K. Venkata Reddy	Member (University Nominee)	Present (Online)
3	Dr. D V S S Siva Sarma	Member (Subject Expert)	Present (Online)
4	Dr. CH. Ravi Kumar,	Member (Subject Expert)	Present (Online)
5	Mr. S. Prathap	Subject Expert (Industry)	Present (Online)
6	Mr. N Malikarjuna Prasad	Expert (Outside)	Present (Online)
7	Mr. B. Kutumba Rao	Alumni	Present (Online)
8	Mr. G. Tejaswi,	Internal Member	
9	Mr. T. Srinivasa Rao	Internal Member	
10	Mr. CH. Pavan Kumar	Internal Member	
11	Mrs. K. Ramya	Internal Member	
12	Mr. P. Uday Kumar	Internal Member	P. Udaykumar
13	Mrs. Lakshmi Saranya	Internal Member	Lakshmi
14	Mrs. M. Hari Priya	Internal Member	M. Hari Priya
15	Mr. G. Chitti Babu	Internal Member	
16	Mr. G. Venkat	Internal Member	
17	Ms. P. Jyothi	Internal Member	
18	Mr. V. Murali Krishna	Internal Member	

➤ **Composition of Board of Studies:**

The following members are drafted as members to Board of Studies for the department of Electrical & Electronics Engineering

S. No.	BOS Member	Name and Designation of Member
I	<b>Chairperson</b>	Mr. Kiran Kumar K , Assoc. Professor & HOD
II	<b>Faculty Members :</b>	
	1	Mr. Kiran Kumar K, Assoc. Professor & HOD
	2	Mr. G. Tejaswi, Assoc. Professor
	3	Mr. T. Srinivasa Rao, Assoc. Professor
	4	Mr. CH. Pavan Kumar, Asst. Professor
	5	Mrs. K. Ramya, Asst. Professor
	6	Mr. P. Uday Kumar, Asst. Professor
	7	Mrs. Lakshmi Saranya, Asst. Professor
	8	Mrs. M. Hari Priya, Asst. Professor
	9	Mr. G. Chitti Babu, Asst. Professor
	10	Mr. G. Venkat, Asst. Professor
	11	Ms. P. Jyothi, Asst. Professor
12	Mr. V. Murali Krishna, Asst. Professor	
III	<b>Subject Experts (Academic) :</b>	
	1.	Dr. CH. Ravi Kumar, EEE Dept., Acharya Nagarjuna University (ANU), Guntur 9494298069, Email Id: ravikumarchekka@gmail.com
	2.	Dr. D V S S Siva Sarma Professor of EEE, National Institute of Technology, Warangal. (NIT-W) Telangana. Mobile: 9849434415, Email Id: dvss@nitw.ac.in
IV	<b>University Nominee :</b>	
	1.	Dr. K. Venkata Reddy Professor of EEE & Director, Academic Planning, JNTUK, Kakinada
V	<b>Subject Expert (Industry)</b>	S Prathap, Assitant Executive Engineer, O/o Chief Engineer Commercial, APGENCO, Vidyut Soudha, Gunadala, Vijayawada-4, N T R Dist, A. P. Email Id:swarnala.pratap@gmail.com
VI	<b>Alumni</b>	Mr. B. Kutumba Rao, Manager Industrial Automation, TRUKING TECHNOLOGY Ltd., HYD.
VII	<b>Expert (Outside)</b>	N. Mallikarjuna Prasad, ADE, APTRANSCO, Vijayawada. Mobile:833 101 4951

Mr. Kiran Kumar, Head of the Department, Electrical and Electronics Engineering, Sree Vahini Institute of Science and Technology, Tiruvuru, chaired the meeting. He expressed his sincere thanks to the entire external examiner for their consent to be on the Board of Studies of the department and their valuable suggestions for improvement. He extended a warm and hearty welcome to all the honorable members of the Board of Studies.

He acknowledged all the members for their valuable suggestions, advice, guidelines, and concern for the overall development of the department. Later, he presented the credentials of the college and the agenda of the meeting.

**Hon'ble Members Dr. K. Venkata Reddy, Dr. D. V. S. Siva Sarma, and Dr. CH. Ravi Kumar have made suggestions for the function of the Board of Studies.**

### **Functions of the Board of Studies**

- Prepare the syllabus for various courses keeping in view the objectives of the college, interest of the stakeholders and national requirement for consideration and approval of the Academic Council.
- Suggest methodologies for innovative teaching and evaluation techniques.
- Suggest panel of names to the Academic Council for appointment of examiners.
- Coordinate research, teaching, extension and other academic activities in the department/college.

*With reference to each agenda item, proceedings of Board of studies meeting given below.*

#### **1. Approval of B.Tech EEE- Course Structure & Syllabus of I B.Tech I & II Sem**

BOS Chairman informed the details related to the R23 course structure, Syllabus I B.Tech I & II sem R23 regulations to all the BOS members. As part of the implementation of NEP- 2020 across the State of Andhra Pradesh. APSCHE & JNTUK, Kakinada proposed common regulation, course structure and syllabus for all autonomous college and affiliated institutions.

The autonomous college may enhance 20% of the syllabus based on the approval from BOS members. The course outcomes may be modified based on the content.

### B.Tech. – I Year I Semester (for Group-A Branches- CSE, CSE-DS)

S. No.	Category	Title	L/D	T	P	Credits
1	BS&H	Communicative English	2	0	0	2
2	BS&H	Engineering Chemistry/ Chemistry/Fundamental Chemistry	3	0	0	3
3	BS&H	Linear Algebra & Calculus	3	0	0	3
4	Engineering Science	Basic Civil & Mechanical Engineering	3	0	0	3
5	Engineering Science	Introduction to Programming	3	0	0	3
6	BS&H	Communicative English Lab	0	0	2	1
7	BS&H	Engineering Chemistry/ Chemistry/Fundamental Chemistry Lab	0	0	2	1
8	Engineering Science	Engineering Workshop	0	0	3	1.5
9	Engineering Science	Computer Programming Lab	0	0	3	1.5
10	BS&H	Health and wellness, Yoga and Sports	-	-	1	0.5
<b>Total</b>			<b>14</b>	<b>0</b>	<b>11</b>	<b>19.5</b>

### B.Tech. – I Year I Semester (for Group-B Branches- ECE, AIML, EEE, ME & Civil)

S. No.	Category	Title	L/D	T	P	Credits
1	BS&H	Engineering Physics	3	0	0	3
2	BS&H	Linear Algebra & Calculus	3	0	0	3
3	Engineering Science	<b>Basic Electrical &amp; Electronics Engineering</b>	3	0	0	3
4	Engineering Science	Engineering Graphics	1	0	4	3
5	Engineering Science	Introduction to Programming	3	0	0	3
6	Engineering Science	IT Workshop	0	0	2	1
7	BS&H	Engineering Physics Lab	0	0	2	1
8	Engineering Science	<b>Electrical &amp; Electronics Engineering Workshop</b>	0	0	3	1.5
9	Engineering Science	Computer Programming Lab	0	0	3	1.5
10	BS&H	NSS/NCC/Scouts & Guides/Community Service	-	-	1	0.5
<b>Total</b>			<b>13</b>	<b>00</b>	<b>15</b>	<b>20.5</b>

**B.Tech. – I Year II Semester (for Group-A Branches-- CSE, CSE-DS)**

S.No.	Category	Title	L/D	T	P	Credits
1	BS&H	Engineering Physics	3	0	0	3
2	BS & H	Differential Equations & Vector Calculus	3	0	0	3
3	Engineering Science	<b>Basic Electrical &amp; Electronics Engineering</b>	3	0	0	3
4	Engineering Science	Engineering Graphics	1	0	4	3
5	Engineering Science	IT Workshop	0	0	2	1
6	Professional Core	Data Structures (Branch specific)	3	0	0	3
7	BS&H	Engineering Physics Lab	0	0	2	1
8	Engineering Science	<b>Electrical and Electronics Engineering Workshop</b>	0	0	3	1.5
9	Professional Core	Data Structures Lab (Branch Specific)	0	0	3	1.5
10	BS&H	NSS/NCC/Scouts & Guides/Community Service	-	-	1	0.5
<b>Total</b>			<b>13</b>	<b>00</b>	<b>15</b>	<b>20.5</b>

**B.Tech. – I Year II Semester (for Group-B Branches ECE, AIML, EEE, ME & Civil)**

S. No.	Category	Title	L	T	P	Credits
1	BS&H	Communicative English	2	0	0	2
2	BS & H	Engineering Chemistry / Chemistry / Fundamental Chemistry	3	0	0	3
3	Engineering Science	Differential Equations & Vector Calculus	3	0	0	3
4	Engineering Science	Basic Civil & Mechanical Engineering	3	0	0	3
5	Professional Core	Network Analysis/Data structures / <b>Electrical Circuits-I</b> / Engineering Mechanics/ (Branch specific)	3	0	0	3
6	BS&H	Communicative English Lab	0	0	2	1
7	BS&H	Engineering Chemistry / Chemistry / Fundamental Chemistry Lab	0	0	2	1
8	Engineering Science	Engineering Workshop	0	0	3	1.5
9	Professional Core	Network Analysis & Simulation Lab / Data structures Lab / <b>Electrical Circuits Lab</b> / Engineering Mechanics/ Mechanics & Building Practices Lab (Branch specific) Engineering	0	0	3	1.5
10	BS&H	Health and wellness, Yoga and Sports	-	-	1	0.5
<b>Total</b>			<b>14</b>	<b>00</b>	<b>11</b>	<b>19.5</b>

**Decision:** Noted and approved the course structure, Syllabus.

## **2. Approval of B.Tech EEE-Course outcomes of I B.Tech I & II Sem.**

The BOS chairman informed all BOS members of the course outcomes for I and II semester courses, as well as the articulation matrix.

### ***Decision:***

A miniature change (additions and deletions) is made with the suggestions of the university nominee and subject experts (R23 regulations).

#### **i. Regrading the Basic Electrical & Electronics Engineering**

- ❖ Course Outcome2 is modified
- ❖ Reference2 is changed to Text Book2

#### **ii. Regrading the Basic Electrical & Electronics Engineering Lab**

- ❖ Course Outcome1 is modified

#### **iii. Regrading the Electrical Circuit Analysis-I**

- ❖ Course Outcome1 is modified.
- ❖ Course Outcome4 is modified.

#### **iv. Regrading the Electrical Circuits Lab**

- ❖ Course Outcome1 is modified
- ❖ Course Outcome5 is modified

Noted and approved the course outcomes specifications and articulation matrix.

## **3. Information on R23 Regulations- U.G (B.Tech)**

The BOS chairman informed to Hon'ble members about R23 regulation polices and audit courses like Health and fitness activities included in the regulations.

***Decision:*** Noted and approved.

## **4. Approval of M.Tech Power Systems- Course Structure & Syllabus of I M. Tech I & II sem and Information on R23 Regulations- P.G (M.Tech).**

BOS Chairman informed the details related to the R23 course structure, Syllabus I M.Tech I & II sem R23 regulations to all the BOS members.

**I M.Tech I Semester (Total Credits: 18)**

S. No	Category	Course Name	L	P	C	Marks
1	PC	Power Generation, Operation and Control	3	0	3	100
2	PC	Analysis of Power Electronic Converters	3	0	3	100
3	PE	Program Elective – I i. Electrical Distribution Automation ii. Renewable Energy Technologies iii. Power System Deregulation	3	0	3	100
4	PE	Program Elective – II i. HVDC Transmission ii. Advanced Power Systems Protection iii. Power System Reliability	3	0	3	100
5		Research Methodology and IPR	2	0	2	100
6		Power System Simulation Laboratory – I	0	4	2	100
7		Power Systems Laboratory	0	4	2	100
8	MC	Audit Course – I	2	0	0	100

**I M.Tech I Semester (Total Credits: 18)**

S. No	Category	Course Name	L	P	C	Marks
1	PC	Power System Dynamics and Stability	3	0	3	100
2	PC	Real Time Control of Power Systems	3	0	3	100
3		Program Elective – III i. EHVAC Transmission ii. Flexible AC Transmission Systems iii. Hybrid Electric Vehicles	3	0	3	100
4	PE	Program Elective – IV i. Generation & Measurement of High Voltages ii. Evolutionary Algorithms and Applications iii. Programmable Logic Controllers & Applications	3	0	3	100
5		Power System Simulation Laboratory – II	0	4	2	100
6		Power Converters Laboratory	0	4	2	100
7		Mini Project with Seminar	0	4	2	100
8	MC	Audit Course – II	2	0	0	100



## **Audit course I & II**

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by Yoga
8. Personality Development through Life Enlightenment Skills.

### ***Decision:***

- ❖ A miniature changes (additions and deletions ) are made with the suggestions of University nominee and Subject experts (R23 regulations )
- ❖ In I sem rename the Power System Operation & Control (POSOC) as Power Generation, Operation and Control.
- ❖ Regarding the Power system Lab-I
  - i. Characteristic of Static Negative sequence relay is added.
  - ii. Characteristics of over voltage relay using Electromagnetic type is added.
- ❖ In regrading Power system simulation Lab-I
  - i. Formation of Z-bus by Z-bus building algorithm is added.

Noted and approved the course structure.

## **5. Approval of M.Tech (Power Systems)-Course outcomes of I M.Tech I & II Sem.**

The BOS chairman informed the course outcomes of I sem & II sem courses and articulation matrix to all the BOS members.

### ***Decision:***

- ❖ The Course Outcome changes are made with the suggestions of University nominee and Subject experts

Noted and approved the course outcomes specifications and articulation matrix.

## **6. Any other matter with permission of Chair.**

- BOS chairman is informed to Hon'ble members about proposed calendar of events organized for students and faculty for the A. Y. 2023-24.

***Decision:*** Noted

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1 Hearty Welcome to Hon'ble Members of BoS

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Hearty Welcome to Hon'ble Members of BoS

Presented by Mr. Kiran HOD & Chairperson

Department of Electrical & Electronics Engineering Sree Vahini Institute of Science & Technology (Autonomous)

Venkata Reddy's I...  
Venkata Reddy's iPhone  
G Tejaswi

Date: 19<sup>th</sup> Oct 2023.

  
 BOS Chairperson  
 HEAD OF THE DEPARTMENT  
 DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
 SRÉE VAHINI INSTITUTE OF SCIENCE & TECHNOLOGY  
 TIRUVURU - 521 235, ANDHRA PRADESH