



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to JNTU-GV,
Vizianagaram) NAAC "A+" Accredited Institute with CGPA: 3.38/4

Tamaram(Village), Near Makavarapalem, Anakapalle Dist, Pin-531113.

www.avanthienggcollege.ac.in, E- mail: principal_aiet@avanthienggcollege.ac.in

Dr.T.Srinivasarao

Head and Chairman, BOS

Lr.No.AIETM/EEE/BoS2

Department of electrical and electronics

Engineering

Phone: +91-08932-222382

Date: 1708.2024

MINUTES OF THE BOARD OF STUDIES MEETING HELD ON 17-08-2024 11.00 AM to 12.30 PM

Minutes of the meeting of Board of Studies, Department of Electrical and Electronics Engineering, held on 17-08-2024 at 11.00 AM to 12.30 PM in our department.

Mode: Hybrid Mode

Link:

<https://us06web.zoom.us/j/81183343751?pwd=q3U2iuomBBqlx2kGjAJJPurVUMKVtqG.1>





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Members Present:

S.No	NAME OF THE MEMBER & AFFILIATION	NOMINATION	SIGNATURE
1	Dr. K. Sri Kumar Professor and Principal JNTU-GV CEV(A),VZM	Expert member nominated by University (JNTU-GV)	
2	Prof .Mallikarjuna Rao. Pasumarthi HOD and Professor, Dean TDR-HUB-AU Dept of Electrical Engineering College of engineering (a), Andhra university.	Expert member nominated by Academic Council	
3	Dr. Ranjan Kumar Behera Associate Professor, IIT Patna	Expert member nominated by Academic Council	
4	Sri.M.Nageswara Rao DGM, NTPC Simhadri, Visakhapatnam	Nominated from Industry	
5	Sri.K V S Rama chandra Murthy, Professor, EEE Dept, & Dean (R&D) Aditya University, Surampalem, Kakinada	Expert from outside the Autonomous College	
6	Sri.Kuppilli .Sai charan Technical Leader :PV & ESS- South & Central Asia, Jinko solar co Ltd,	Nominated from Alumini	
7	Dr.C.P.V.N.J.Moahanrao	Principal	
8	Varahala Dora Petla Assistant Professor	Member	
9	Marra Jyothsna Sivani Assistant Professor	Member	
10	Kancharla Rajani, Assistant Professor	Member	
11	K.Durga Rao, Assistant Professor	Member	
12	Gajji Rajasekhar Yadav Assistant Professor	Member	
13	Mude Navya Kantha Assistant Professor	Member	
14	Chillapalli Ramadevi Assistant Professor	Member	
15	Seelam Sujatha Devi Assistant Professor	Member	
16	Dr.T.Srinivasa Rao	Chairperson	

Members Absent: Nil



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MINUTES:

- ❖ BOS Chairman Dr.T.Srinivasa Rao welcomed all the members.
- ❖ Discussed about the agenda of the BOS meeting. Introduced all members and presented history and highlights of the EEE department.
- ❖ Presented the UG course structure for all four years and PG course structure.
- ❖ **Prof.P.MALLIKARAJUNA RAO, HOD, Electrical Engineering, Andhra University-** asked whether the syllabus is in line with JNTU-GV syllabus.
- ❖ **Prof. K. Sri Kumar suggested as follows**
 - Course structure and syllabus of B.Tech I-I , B.Tech I-II , M.Tech(PE) I-I, M.Tech(PE) I-II , M.Tech(PS) I-I, M.Tech(PS) I-II courses to be discussed in BoS meeting.
 - Mentioned that credits or course name cannot be changed; only 20 percent of the syllabus can be changed. Credit transfer will be a problem, If a student wants to change the University/college. Suggested to take permission from DAP for changing credits of any course.
 - Suggested not to remove locus diagrams in ECA-I since it is important concept for GATE.
- ❖ **Dr. RANJAN KUMAR BEHERA in BoS meeting**
 - Asked whether tutorial problems are being solved in class are directly given to the student an assignment.
 - Raised a query whether 3-phase power is measurement for both balanced and unbalanced load is included or not.
 - Suggested to add AC-DC converter, DC-DC isolated converter, multilevel inverters and introduction to matrix converter in Advanced Power Electronic Converters – I.
 - Suggested to add Fundamentals of charging infrastructure (in unit3) and Solid states of battery energy in Electric Vehicles and Design.
 - Suggested to add power electronic converter Bi-directional HVDC in transmission lines.
 - Asked whether transmission line model is there in power systems lab. Also raised a query for how many months internship needed to be done. Suggested to add following topics in hybrid electric vehicles: IPFC and UPFC (in unit 5).
- ❖ **Dr. Nageswar Rao**
 - Asked whether MATLAB software is being used for simulations or not.
 - Suggested to add energy storage systems in Electric Vehicles and Design.
- ❖ **Mr.SAI CHARAN KUPPILLI** - suggested to add Energy storage systems, Hybrid energy storage system, PV-power plants, Fuel cells in Renewable Energy Technologies.
- ❖ **Sri. K V S Rama chandra Murthy and Prof. P.MALLIKARAJUNA RAO,** appreciated the efforts made by BoS members for formulation of UG syllabus implementation of OBE.

With the above suggestions the proposed curriculum/syllabus for the following subjects have been approved by all the members.



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PROGRAMME/SPECILIAION	YEAR /SEMESTER	COURSE
B.Tech/EEE,ECE,MECH	I-I	Basic electrical and electronics engineering (Theory & Lab)
B.Tech/CSE,CSE-DS, CSE(AI&ML)	I-I	Basic electrical and electronics engineering(Theory &Lab)
B.Tech/EEE	I-II	Electrical Circuit Analysis-1(Theory & Lab)
B.Tech/ECE	I-II	Network Analysis and Network Analysis Lab
M.Tech/POWER ELECTRONICS	I-I	Electrical Machine Modeling and Analysis
		Advanced Power Electronic Converters – I
		Modern Control Theory(or) Power Quality Improvement Techniques(or) Programmable Logic Controllers &Applications
		Artificial Intelligence Techniques(or) Renewable Energy Technologies(or) Reactive Power Compensation and Management
		Power Electronics Simulation Laboratory Power Converters Laboratory
M.Tech/POWER ELECTRONICS	I-II	Advanced Power Electronic Converters – II
		Power Electronic Control of Electrical Drives
		Power Electronics for Renewable Energy Systems (or) Electric Vehicles and Design (or) Digital Control Systems
		Advanced Digital Signal Processing (or) Applications of Power Converters (or) Microcontroller applications



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		to power electronics
		Electric Drives Simulation Laboratory
		Electric Drives Laboratory
M.Tech / POWER SYSTEMS	I-I	Power System Operation & Control
		Analysis of Power Electronic Converters
		Electrical Distribution Automation (or) Control and Integration of Renewable Energy sources (or) Power System Deregulation.
		HVDC Transmission (or) Advanced Power Systems Protection (or) Power System Reliability.
		Power System Simulation Laboratory – I
M.Tech / POWER SYSTEMS	I-II	Power Systems Laboratory
		Power System Dynamics and Stability
		Real Time Control of Power Systems
		EHVAC Transmission (or) Flexible AC Transmission Systems(or) Electric Vehicles & Design.
		Generation & Measurement of High Voltages (or) Evolutionary Algorithms and Applications (or) Programmable Logic Controllers & Applications.
		Power System Simulation Laboratory – II
		Power Converters Laboratory

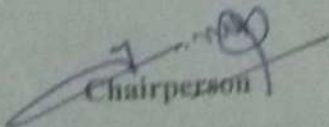


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- ❖ Dr.C.P.V.N.J.Moahanrao Principal and BoS Chairman Dr.T.Srinivasa Rao thanked all the Board of Studies members for their valuable inputs.
- ❖ Next BoS is scheduled in the month of November for finalization 2nd year course structure and syllabus.

Yours truly,


Chairperson

Board of Studies (EEE)
Head of the Department
Department of Electrical & Electronics Engg.
Avanthi Institute of Engg & Tech.
Makavarapalem, Visakhapatnam - 531113.