



AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Autonomous)

(Approved by A.I.C.T.E., New Delhi & Permanently Affiliated to J.N.T.U-GV, Vizianagaram)

NAAC "A+" Accredited Institute

Makavarapalem, Narsipatnam (R.D), **Anakapalle** (Dist), Pin-531113

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Dr.T.Srinivasarao
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Lr.No. AIETM/EEE/BoS2

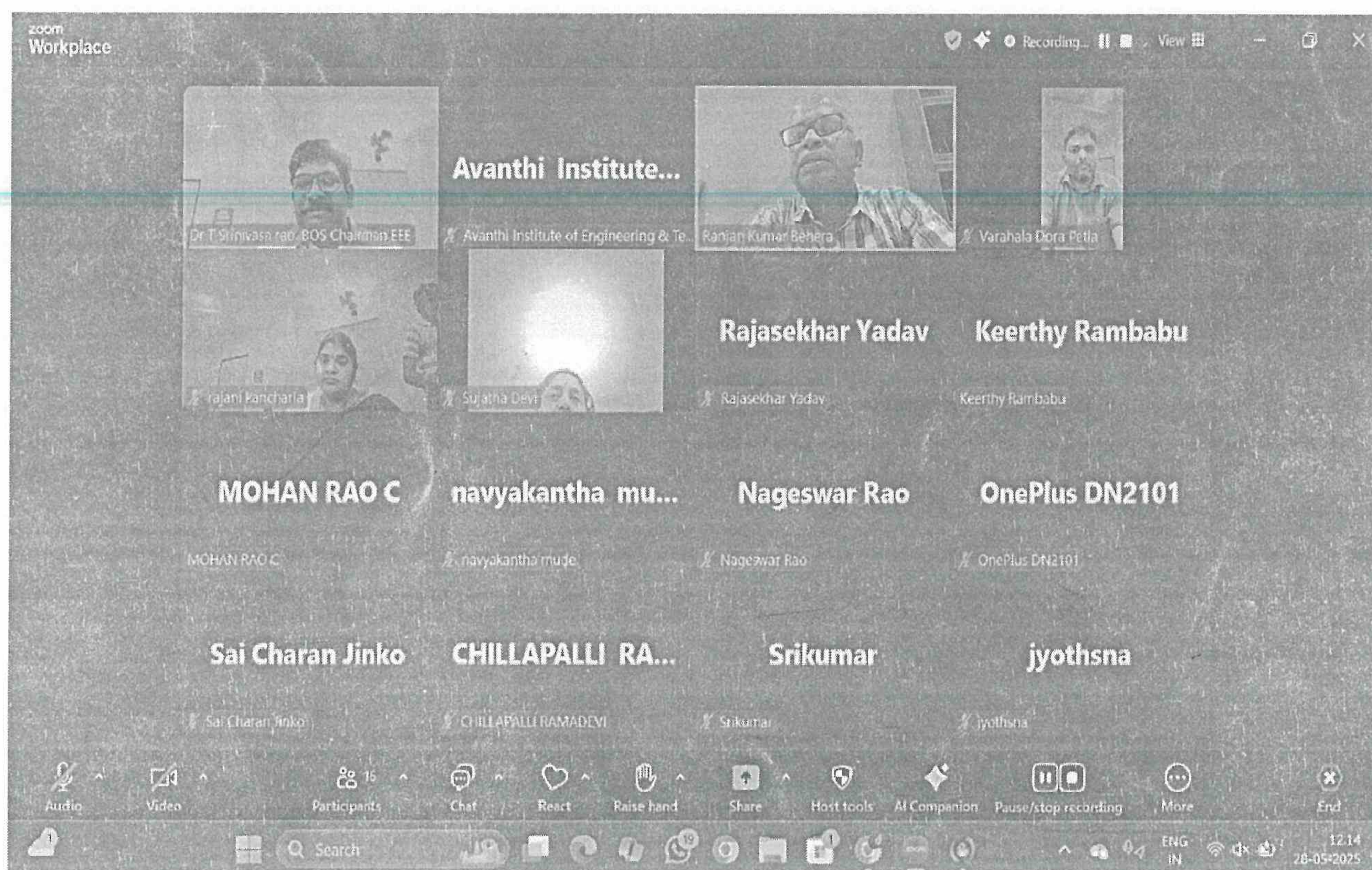
Date: 28.05.2025

MINUTES OF THE BOARD OF STUDIES MEETING HELD ON 28-05-2025 11.00 AM to 12.30 PM

Minutes of the meeting of Board of Studies, Department of Electrical and Electronics Engineering, held 11.00AM to 12.30 PM in our department.

28-05-2025 11.00 AM

Mode: Hybrid Mode



Members Present:

S.No	NAME OF THE MEMBER & AFFILIATION of BOS
1	Dr. K. Sri Kumar Professor JNTU-GV CEV(A),VZM Expert member nominated by University (JNTU-GV)
2	Prof .Mallikarjuna Rao. Pasumarthi Professor, Dean TDR-HUB-AU Andhra university, Visakhapatnam, 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 District. 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.Mohanrao Principal

8	Dr.T.Srinivasa Rao BOS	HOD and Professor- Chairperson
9	Dr.D.Ramesh	Associate Professor - Member
10	VARAHALA DORA PETLA	Assistant Professor - Member
11	MARRA JYOTHSNA SIVANI	Assistant Professor- Member
12	KANCHARLA RAJANI	Assistant Professor- Member
13	K DURGA RAO	Assistant Professor- Member
14	GAJJI RAJASEKHAR YADAV	Assistant Professor- Member
15	MUDE NAVYA KANTHA	Assistant Professor- Member
16	CHILLA PALLI RAMADEVI	Assistant Professor- Member
17	SEELAM SUJATHA DEVI	Assistant Professor- Member
18	P. SHEERISHA	Assistant Professor- Member

Minutes of the 2nd Board of Studies (BoS) Meeting:

1. Welcome Address

Dr. T. Srinivasarao, Chairman, Board of Studies (EEE), welcomed all BoS members. He appreciated their consistent contributions to curriculum development, syllabus refinement, and alignment with industry and academic standards.

2. Presentation and Review of Curriculum

2.1 Undergraduate Program (B.Tech – EEE) – 2nd Year (I & II Semesters)

- The proposed AVEN curriculum and syllabus were presented, focusing on the key improvements, structural alignment, and course updates.
- A comparative presentation of the proposed AVEN curriculum and JNTUGV syllabus was provided to highlight improvements, structure alignment, and course.
- **Power Systems I:** Revised for better clarity, sequence, and content depth introduced transmission and mechanical design.
- **Electromagnetic Fields (EMF):**
 - Proposal to review the course title "Engineering Electro Magnetism".
 - Suggested title change to "Electro Magnetism" if practical applications are not included.
- **DC Machines & Transformers:**
 - Introduction of a new topic on *Electromechanical Principles* in Unit I.
- **Control Systems:**

- Inclusion of new content on **AC Servo Motors**.
- Lab syllabus updated with experiments on:
 - AC Servo Motor Characteristics
 - Synchro Transmitter and Receiver
- **Laboratory Enhancements:**
 - Additional experiments proposed in **ECA-I Lab** and **Control Systems Lab**.
 - Updates made to **Induction Machines & Synchronous Machines (IM & SM) Lab** for sequencing and content enrichment.
- **Employability Skill Courses** (Credit-Based Audit Courses):
 - *Employability Skills I*: Competitive Coding (2nd Year – I Semester)
 - *Employability Skills II*: Quantitative Aptitude & Logical Reasoning (2nd Year – II Semester)

2.2 Postgraduate Program (M.Tech – Power Systems & Power Electronics)

- Updated syllabi for 3rd and 4th semesters presented as per **JNTUGV structure**.
- Focus areas included Smart Grid Technologies, Power Quality, Energy Management, AI Techniques, and Industrial Safety.

3. Policy and Administrative Discussions

Dr. C.P.V.N.J. Mohanrao – Principal:

- Explained credit structure and policies for **Minor and Honors programs**.
- Clarified **NPTEL course equivalency**, evaluation standards, and transfer policies.
- Discussed **student eligibility criteria** for **Minor and Honors programs**.
- Emphasized alignment with **NEP 2020** and **AICTE model curriculum**.

4. Expert Opinions and Recommendations

Dr. K. Sri Kumar (Professor in EEE Dept.- JNTU-GV)

- Expressed his satisfaction with the proposed syllabus and appreciated the well-structured course design. He commended the department for its efforts in aligning the curriculum with academic standards and industry requirements, ensuring comprehensive coverage of essential topics and contemporary advancements.

Dr. Ranjan Kumar Behera – Professor, IIT Patna:

- Recommended a review of the motor control content included in the Electric Vehicle (EV)-related courses to ensure relevance and depth.
- Suggested limiting the number of laboratory experiments to 10, citing that IITs typically include 6–8 well-designed experiments for effective learning outcomes.
- Raised a query regarding the credit allocation and evaluation mechanisms for NPTEL courses, seeking clarity on their integration into the curriculum.
- Appreciated the structured and forward-looking nature of the proposed curriculum revisions, commending the department's proactive approach to modernization.

Prof. Mallikarjuna Rao Pasumarthi – Professor & Dean (R&D), Andhra University:

- Advised retaining the title "**Engineering Electromagnetic**" only if the course includes sufficient practical and application-oriented content.
- Otherwise, recommended renaming the course to "**Electromagnetic Field Theory (EMF)**" to better reflect its theoretical nature.

Sri K.V.S. Rama Chandra Murthy – Dean (R&D), Aditya University:

- Requested a thorough validation and planning process to ensure the **availability of qualified faculty** for the newly introduced elective courses.
- Emphasized the need for **faculty training and upskilling** in emerging subject areas to effectively deliver the updated curriculum.
- Recommended formulating a clear **student intake strategy** for the Minor and Honors programs to maintain quality and manage enrollment effectively.

Sri M. Nageswara Rao – DGM, NTPC Simhadri:

- Recommended replacing the topic "**Risk Identification**" in safety-related courses with **HIRA (Hazard Identification and Risk Assessment)** to better align the curriculum with current industry standards and practices.

Sri Kuppilli Sai Charan (Jinko Solar)

- Expressed appreciation for the department's efforts in modernizing the curriculum to reflect emerging industry standards.

5. Approvals and Resolutions:

The UG and PG courses and syllabus were unanimously approved by all members, with the suggestion to incorporate a few minor corrections.

5.1 UG Program Curriculums (B.Tech – EEE, 2nd Year – AY 2025–2026)

2nd Year – I Semester:

- Electrical Circuit Analysis-II
- DC Machines & Transformers
- Electrical Circuit Analysis-II and Simulation Lab
- DC Machines & Transformers Lab
- Employability Skills I – Competitive Coding

2nd Year – II Semester:

- Power Systems-I
- Induction and Synchronous Machines
- Control Systems
- Induction and Synchronous Machines Lab

- Employability Skills II – Quantitative Aptitude & Logical Reasoning

SEC Courses:

- Employability Skills I – Competitive Coding (2nd Year – I Sem)
- Employability Skills II – Quantitative Aptitude & Logical Reasoning (2nd Year – II Sem)

5.2 Honors Courses Offered by the Department of EEE

(For EEE Students)

- Electric Vehicles and Smart Mobility
- Renewable Energy Systems & Smart Grids
- Embedded Systems & IoT

5.3 Minor Degree Programs by the Department of EEE

(For Non-EEE Students)

- Electrical Systems in Industrial Applications
- Electrical Safety & Erection

5.4 PG Program Curriculum (M.Tech – Power Electronics & Power Systems)

Approved for 2nd Year – I & II Semesters, AY 2025–2026

M.Tech – Power Systems

Program Elective-V:

- Energy Audit, Conservation & Management
- Smart Grid Technologies
- Power Quality and Custom Power Devices

Open Electives:

- Industrial Safety
- Artificial Intelligence Techniques
- Operations Research

M.Tech – Power Electronics

Program Elective-V:

- Digital Signal Processing Controlled Drives
- Smart Grid Technologies
- Modeling & Simulation of Power Electronic Systems

Open Electives:

- Industrial Safety
- Energy Audit, Conservation & Management
- Composite Materials

Dissertation Phase-I and Phase-II are conducted in the first and second semesters of the second year, where students must complete project implementation and participate in regular progress reviews.

Vote of Thanks and Closing Remarks

Dr. C.P.V.N.J. Moahanrao, Principal, and Dr. T. Srinivasarao, BoS Chairman (EEE), extended their sincere thanks to all BoS members for their active participation and valuable inputs. All the suggestions were duly noted and necessary amendments have been incorporated into the final syllabi and course structures.

Next BoS Meeting

The next Board of Studies meeting is tentatively scheduled for **March [2026]**, to finalize the **3rd Year course structure and syllabus** for the UG program (B.Tech – EEE).

Yours truly,



Chairperson

Board of Studies (EEE)

S.No	NAME OF THE MEMBER & AFFILIATION of BOS	Signature
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2	Prof .Mallikarjuna Rao. Pasumarthi Professor, Dean TDR-HUB-AU Andhra university, Visakhapatnam, Expert member nominated by Academic Council	ONLINE MODE
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9	Dr.D.Ramesh Associate Professor - Member	

10	VARAHALA DORA PETLA	Assistant Professor - Member	<i>Dora</i>
11	MARRA JYOTHSNA SIVANI	Assistant Professor- Member	<i>M. Sivani</i>
12	KANCHARLA RAJANI	Assistant Professor- Member	<i>K. Rajani</i>
13	K DURGA RAO	Assistant Professor- Member	<i>K. Durga Rao</i>
14	GAJJI RAJASEKHAR YADAV	Assistant Professor- Member	<i>G. Rajasekhara</i>
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16	CHILLA PALLI RAMADEVI	Assistant Professor- Member	<i>Ch. Ramadevi</i>
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18	P. SHEERISHA	Assistant Professor- Member	<i>P. Sheerisha</i>