



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, CST, ECE, EEE, MECH), MBA & MCA



Department of Electrical & Electronics Engineering

11.07.2025

Minutes of 14th Board of studies (BoS) Meeting Held on 10.07.2025

The 14th BoS meeting is held on 10.07.2025 at 11.00 a. m.. virtually via Microsoft Teams, MITS, Madanapalle.

Agenda:

1. Discussion on R23 Structure from III year B.Tech. (EEE),
2. Discussion on Detailed Syllabus of III year B.Tech. (EEE),
3. National Credit Framework (NCrF),
4. Indian Knowledge System (IKS),
5. Pursuing two academic programs simultaneously,
6. Courses in Bharatiya Bhasha Language,
7. Discussion on PEOs & PSOs statements.

Members :

- | | | | |
|---|--|----------------------------|---|
| 1 | Dr. A. V. Pavan Kumar
HoD, Dept. of EEE, MITS | Chairman |  |
| 2 | Prof. P. S. Nagendra Rao
Professor, Dept of IISc, Bangalore (Retd) | Subject Expert Member | |
| 3 | Dr. K. Siva Kumar
Professor & Head, Dept. of EE, IIT Hyderabad | Subject Expert Member | |
| 4 | Dr. R. Kiranmayi
Director, IRP & SCDE and Professor of EEE
Department, JNTUA CEA | University Nominee Member | |
| 5 | Dr. Balakrishna P
Senior Engineer – Emerging Technologies,
GE Grid Solutions, Hyderabad. | Industry Expert Member | |
| 6 | Ms. B. R. Sushma
Scientist, DRDO | Meritorious Alumnus Member | |
| 7 | Dr. C. Kamal Basha
VP Admin. & Professor, Dept. of EEE, MITS | Subject Expert Member |  |
| 8 | Dr. T. S. Balaji Damodhar
Assistant Professor, Dept. of EEE, MITS | Academic Head |  |

- 9 Dr. Arul Kumar K
Associate Professor, Dept. of EEE, MITS
- 10 Dr. K. Lakshmikhandan
Associate Professor, Dept. of EEE, MITS
- 11 Dr. VB Thurai Raaj
Assistant Professor, Dept. of EEE, MITS
- 12 Dr. R. Saravanakumar
Assistant Professor, Dept. of EEE, MITS
- 13 Mr. Rajesh KS
Assistant Professor, Dept. of EEE, MITS
- 14 Dr. Vineet Kumar
Assistant Professor, Dept. of EEE, MITS
- 15 Dr. Satish Kumar Ramoji
Assistant Professor, Dept. of EEE, MITS
- 16 Dr. Srinivas Chikkam
Assistant Professor, Dept. of EEE, MITS
- 17 Mr. Sridhar N
Assistant Professor, Dept. of EEE, MITS
- 18 Mr. B. Karthick
Assistant Professor, Dept. of EEE, MITS
- 19 Mr. Ch. Srinivas
Assistant Professor, Dept. of EEE, MITS
- 20 Mr. Ibrahim Zafar
Assistant Professor, Dept. of EEE, MITS
- 21 Mr. M. Venkatesh
Assistant Professor, Dept. of EEE, MITS
- 22 Mr. Mallikarjuna
Assistant Professor, Dept. of EEE, MITS
- 23 Mr. E. Raghu Babu
Assistant Professor, Dept. of EEE, MITS
- 24 Mr. R. Ramesh Kumar
Assistant Professor, Dept. of EEE, MITS

Subject Expert Member



Subject Expert Member



Subject Expert Member



Subject Expert Member



DIQAC Member



Member



Member



Member



Member



Member



Member



Member



Member



Member



Member



Minutes:

1. **Discussion on R23 Curriculum Structure for III Year**
The committee deliberated on the R23 curriculum framework applicable from the III Year. Upon thorough review, the members found the structure appropriate, and no modifications were proposed.
2. **Discussion on Detailed Syllabus for III Year**
The detailed syllabus for all III Year courses was presented to the committee. Members critically evaluated the course content, learning objectives, and expected outcomes. The following suggestions and recommendations emerged:
 - a) **Open Electives:**
Inclusion of more advanced-level courses was suggested. It was recommended to categorize these electives into distinct pools for better academic flexibility.
 - b) **Power Electronics (Theory):**
In Unit III, practical applications of power electronic converters should be incorporated to enhance practical relevance.
 - c) **Power Systems:**
The introduction of power electronic-based compensation devices such as STATCOM, UPFC, etc., can be considered for inclusion into syllabus to reflect modern grid practices.
 - d) **Power Electronics Laboratory:**
Design and implementation of firing circuits using discrete components should be added to performing of experiment for strengthening foundational circuit skills.
 - e) **Analog and Digital Electronics Laboratory:**
Due to the extensive list of experiments, it was recommended to see possibility of combining certain experiments under broader titles to manage workload efficiently.
 - f) **Tinkering Laboratory:**
Innovative projects should be encouraged. Suggested topics include drone mock models, energy analytics mobile applications for campus use, non-invasive biomedical instrumentation for healthcare, and EV-related innovations.
 - g) **Electrical Measurements and Instrumentation:**
Units I and II need to be revised and replaced with content on modern digital measuring techniques. The updated content should reflect current industrial practices, including topics such as non-conventional instrument transformers, merging units, smart meters, infrared thermography cameras, phasor measurement units (PMUs), intelligent electronic devices (IEDs), and non-invasive sensors.
 - h) **Communication Systems:**
Continuation of the course into an advanced version was recommended. It should include contemporary topics such as 5G technologies.
 - i) **Professional Elective I – Electrical Safety and Risk Management:**
The syllabus may include safety measures related to the installation and operation of solar panels, battery energy storage systems (BESS), and wind turbines.
 - j) **Professional Elective II – Electric Drives:**
The topics address applications in modern industrial environments can be incorporated, with a focus on smart transportation systems.

19-10
k) **Professional Elective II – Renewable Energy and Distributed Energy Resources (DER):**
Content on hybrid solar-wind generation systems and their advantages can be considered for possible inclusion.

l) **Minors and Honors Programs:**

Decisions regarding the structure and implementation of Minors and Honors programs should be aligned with institutional policy.

3. **National Credit Framework (NCrF)**

All students are registered under the ABC portal. This would enable students to accumulate the credits in their login and redeem them when required.

4. **Indian Knowledge System (IKS)**

The importance of integrating the Indian Knowledge System into relevant courses was emphasized. The committee accepted the initiative and recommended the inclusion of subjects either as an open elective or as an audit course.

5. **Pursuing Two Academic Programs Simultaneously**

The committee discussed the UGC's provision for pursuing two academic programs concurrently. After evaluation, the committee accepted the proposal in principle, subject to institutional policy approval.

6. **Courses in Bharatiya Bhasha Language**

Members accepted the introduction of courses in Indian languages to promote linguistic and cultural awareness.

7. **Discussion on PEOs & PSOs Statements**

The existing PEOs and PSOs were reviewed for relevance and alignment with outcome-based education. Suggested no changes.

BoS authorizes the chairperson and IDC to make appropriate changes.


BoS Chairperson
(HoD EEE)

Head of the Department
Electrical & Electronics Engineering
Madanapalle Institute of Technology & Science
MADANAPALLE - 517 325

 Outlook

Re: 14th BoS Meeting MoM- Dept. of EEE - MITS, Madanapalle

From Nagendra Rao <nagendraraops@gmail.com>

Date Thu 7/17/2025 10:53 AM

To HoD-Electrical & Electronics Engineering <eeehod@mits.ac.in>

I have perused the modified syllabus. I here by indicate my approval for the same

Prof. P S Nagendra Rao (Retd)
Dept Electrical Engineering
Indian Institute of Science
Bangalore 560012

Tel:(Mob) 9620421560
(land line) 080 23490951

On Wed, 16 Jul, 2025, 10:18 AM HoD-Electrical & Electronics Engineering, <eeehod@mits.ac.in> wrote:

Dear BoS Members,

The MoM of 14th BoS meeting held on 10-07-2025 is attached for your kind approval. The detailed syllabus is also attached for your kind reference.

This BoS we are finalizing the III-year syllabus only.

Thank you

With Regards,

Dr. A V Pavan Kumar.
Professor & Head
Department of EEE,
Madanapalle Institute of Technology & Science,
2024 NIRF (Band 201-300), NAAC A+,
Madanapalle - 517 325
Mob: +91-9160020781
E-mail Id: eeehod@mits.ac.in

 Outlook

Re: 14th BoS Meeting MoM- Dept. of EEE - MITS, Madanapalle

From Dr. Siva Kumar K <ksiva@ee.iith.ac.in>
Date Thu 7/17/2025 6:00 AM
To HoD-Electrical & Electronics Engineering <eeehod@mits.ac.in>

Dear Prof. Pavan,

The proposed syllabus looks fine to me, you may consider this email as my approval for the same

WR
Siva

Siva Kumar K, Ph.D,
Professor,
Department of Electrical Engineering,
Indian Institute of Technology Hyderabad,
Kandi, Sangareddy,
Telangana, India. 502285
www.iith.ac.in/~ksiva

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E-mail Id: eeehod@mits.ac.in

Disclaimer:- This footer text is to convey that this email is sent by one of the users of IITH. So, do not mark it as SPAM.

 Outlook

Re: 14th BoS Meeting MoM- Dept. of EEE - MITS, Madanapalle

From Ms. kiranmayi <kiranmayi.eee@jntua.ac.in>

Date Thu 7/17/2025 3:00 PM

To HoD-Electrical & Electronics Engineering <eeehod@mits.ac.in>

Approved.

Thanks & Regards

Prof. R.Kiranmayi

On Wed, Jul 16, 2025 at 10:18 AM HoD-Electrical & Electronics Engineering <eeehod@mits.ac.in> wrote:

Dear BoS Members,

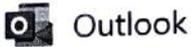
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Mob: +91-9160020781
E-mail Id: eeehod@mits.ac.in



Re: 14th BoS Meeting MoM- Dept. of EEE - MITS, Madanapalle

From Bala Krishna <balakrishna20984@gmail.com>

Date Wed 7/16/2025 11:34 AM

To HoD-Electrical & Electronics Engineering <eeehod@mits.ac.in>

Dear Sir

Approved from my side.

Best Regards,

BALA KRISHNA.P,

M.TECH,PHD, IIT MADRAS.

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E-mail Id: eeehod@mits.ac.in

 Outlook

Re: 14th BoS Meeting MoM- Dept. of EEE - MITS, Madanapalle

From BR Sushma <brsushma@gmail.com>

Date Fri 7/18/2025 10:41 AM

To HoD-Electrical & Electronics Engineering <eeehod@mits.ac.in>

The Minutes of the Meeting were reviewed and approved.

Regards,
Sushma B R

On Wed, Jul 16, 2025 at 10:18 AM HoD-Electrical & Electronics Engineering <eeehod@mits.ac.in> wrote:

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