



## Department of Electrical & Electronics Engineering

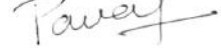






### Minutes of 8<sup>th</sup> Board of Studies Meeting Held on 01-03-2021

The 8<sup>th</sup> BoS Meeting is held on 01-03-2021 at 10.00am in the Microsoft Teams, Dept. of EEE, MITS, Madanapalle.

#### Agenda

1. Discussion on R-20, B. Tech. curriculum structure for I year I & II Sem.
2. Discussion the syllabus content of Basic Electrical Engineering.
3. Discussion the content of Electrical Engineering Laboratory.
4. Any other matter with the permission of the chair.

#### Members Present:

- |   |   |
|---|---|
| 1. Dr. A. V. Pavan Kumar,<br>HoD, Dept. of EEE, MITS.                   | Chairperson  |
| 2. Prof. P.S. Nagendra Rao,<br>Professor, Dept. of EE, IIT, Dharwad     | Member – Subject Expert   |
| 3. Dr. K. Siva Kumar,<br>Assoc. Professor, Dept. of EE, IIT, Hyderabad  | Member – Subject Expert   |
| 4. Dr. P. Raja,<br>Assoc. Professor, Dept. of EEE, NIT, Tiruchirappalli | Member – University Nominee   |
| 5. Ms. B.R. Sushma,<br>Scientist, DRDO, Bangalore                       | Member – Meritorious Alumnus  |
| 6. Dr. M. Vaigundamoorthi,<br>Professor, Dept. of EEE, MITS.            | Member     |
| 7. Dr. C. Kamal Basha,<br>Professor, Dept. of EEE, MITS.                | Member     |
| 8. Dr. Rajendraprasad Nare,<br>Assoc. Professor, Dept. of EEE, MITS.    | Member     |
| 9. Dr. M. Chakkarapani,<br>Assoc. Professor, Dept. of EEE, MITS.        | Member     |
| 10. Dr. M. Vijay,<br>Assoc. Professor, Dept. of EEE, MITS.              | Member     |
| 11. Dr. Hira Singh Sachdev,<br>Sr. Asst. Professor, Dept. of EEE, MITS. | Member     |

## Suggestions on Curriculum & Structure (UG - R20)

1. The total credits for I year I & II sem are 19.5 each as per APSCHE guidelines.
2. The syllabus content of Basic Electrical Engineering Unit I: mention of Electrical circuit components only. Unit IV: Inclusion of topics - Introduction to different types of AC motors, starting methods: D.O.L, Autotransformer starter. Unit V – Inclusion of additional information for types of wires and cables – Current carrying capability, Insulation Strength.
3. The experiment in Electrical Engineering Laboratory with title “Measurement of voltage, current and power in a single-phase circuit using voltmeter, ammeter and wattmeter. Also, calculate the power factor of the circuit” utilizing Fan with regulator as load to demonstrate the change in power factor.
4. The experiment in Electrical Engineering Laboratory with title “Fabrication of a given electronic circuit on a PCB and test the same” utilizing PCB Power Online firmware to design the PCB.
5. The I Year I & II Sem Structure is approved and the syllabus content of the Basic Electrical Engineering and Electrical Engineering Laboratory can be appropriately modified for making it consistent if necessary. BoS authorizes the chairperson and IDC for making appropriate changes.

*Pavuluri*  
29/03/2021  
BoS Chairperson

**Re: Regd. Approval of I Year I & II Sem Structure and Syllabus of BEE Theory and Lab**

Nagendra Rao &lt;nagendraraops@gmail.com&gt;

Tue 3/2/2021 10:56 AM

To: HOD- EEE &lt;eeehod@mits.ac.in&gt;

Dear Sir,

I have gone through the documents and approve the same

See the following link where i have indicated some minor changes we had discussed

<https://drive.google.com/file/d/1yGiEHraKNzjloMH6LF3G4vgYvkVnC20M/view?usp=sharing>

Thanks,

Prof. P S Nagendra Rao (Retd)

Dept Electrical Engineering

Indian Institute of Science

Bangalore 560012

Tel:( Mob) 9620421560

(land line) 080 23490951

On Mon, Mar 1, 2021 at 5:17 PM HOD- EEE <[eeehod@mits.ac.in](mailto:eeehod@mits.ac.in)> wrote:

Dear Sir / Madam,

As per the Suggestions given in the BoS Meeting conducted on 01-03-2021, 10.00 AM. I am here with attaching the updated syllabus copy of BEE theory and Lab, I Year I & II Sem Structure.

I require your concern and approval for the I Year I & II Sem Structure and Syllabus of BEE Theory and Lab for putting forward the same in the Academic Council.

I request you to give your approval through email.

Thanking you

*With Regards,*

**Dr A V Pavan Kumar**  
Associate Professor, Department of EEE  
**Head of the Department - EEE**

Mobile: +91-9160020781

Email: [eeehod@mits.ac.in](mailto:eeehod@mits.ac.in)

Madanapalle Institute of Technology &amp; Science (Autonomous)

Post Box No:14, Kadiri Road, Madanapalle

Chittoor District, Andhra Pradesh, India-517325

website: [www.mits.ac.in](http://www.mits.ac.in)

**Re: Regd. Approval of I Year I & II Sem Structure and Syllabus of BEE Theory and Lab**

HOD- EEE &lt;eeehod@mits.ac.in&gt;

Tue 3/2/2021 11:00 AM

To: praja@nitt.edu &lt;praja@nitt.edu&gt;

Thank you very much sir

*With Regards,*

**Dr A V Pavan Kumar**  
Associate Professor, Department of EEE  
**Head of the Department - EEE**

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Chittoor District, Andhra Pradesh, India-517325  
website: [www.mits.ac.in](http://www.mits.ac.in)

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**From:** praja@nitt.edu <praja@nitt.edu>**Sent:** Tuesday, March 2, 2021 5:19 AM**To:** HOD- EEE <eeehod@mits.ac.in>**Subject:** Re: Regd. Approval of I Year I & II Sem Structure and Syllabus of BEE Theory and Lab

Dear sir,

All seems to be in place as per our discussion. The lab content alone you can check once again, whether suggestions are included.

Other than that you can very well proceed further.

Thanks and Regards

Raja

Quoting HOD- EEE &lt;eeehod@mits.ac.in&gt;:

- > Dear Sir / Madam,
- >
- > As per the Suggestions given in the BoS Meeting conducted on
- > 01-03-2021, 10.00 AM. I am here with attaching the updated syllabus
- > copy of BEE theory and Lab, I Year I & II Sem Structure.
- >
- > I require your concern and approval for the I Year I & II Sem
- > Structure and Syllabus of BEE Theory and Lab for putting forward the
- > same in the Academic Council.
- >
- > I request you to give your approval through email.
- >
- > Thanking you
- >

> With Regards,  
>  
> [cid:65662f33-2e84-41d6-a44c-c4d806e75dea]

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P. Raja, M.Tech., Ph.D.,  
Associate Professor,  
Electrical and Electronics Engineering,  
National Institute of Technology,  
Tiruchirappalli - 620015. Tamil Nadu.  
+431-250 3264, 4264  
+91-9942680653

**Re: Regd. Approval of I Year I & II Sem Structure and Syllabus of BEE Theory and Lab**

HOD- EEE &lt;eeehod@mits.ac.in&gt;

Tue 3/2/2021 11:00 AM

To: Dr. Siva Kumar K &lt;ksiva@ee.iith.ac.in&gt;

Thank you very much Sir

*With Regards,*

**Dr A V Pavan Kumar**  
Associate Professor, Department of EEE  
**Head of the Department - EEE**

Mobile: +91-9160020781  
Email: [eeehod@mits.ac.in](mailto:eeehod@mits.ac.in)  
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Chittoor District, Andhra Pradesh, India-517325  
website: [www.mits.ac.in](http://www.mits.ac.in)

**From:** Dr. Siva Kumar K <ksiva@ee.iith.ac.in>**Sent:** Tuesday, March 2, 2021 10:12 AM**To:** HOD- EEE <eeehod@mits.ac.in>**Cc:** praja@nitt.edu <praja@nitt.edu>; Nagendra Rao <nagendraraops@gmail.com>; nagendra@ee.iisc.ernet.in <nagendra@ee.iisc.ernet.in>; ksiva@iith.ac.in <ksiva@iith.ac.in>; Rajendra Prasad N <rajendraprasadn@mits.ac.in>; Chakkarapani M <chakkarapanim@mits.ac.in>**Subject:** Re: Regd. Approval of I Year I & II Sem Structure and Syllabus of BEE Theory and Lab

Dear Dr. Pavan Kumar,

Looks fine to me, approved from my side

With regards  
sivaOn Mon, Mar 1, 2021 at 5:17 PM HOD- EEE <[eeehod@mits.ac.in](mailto:eeehod@mits.ac.in)> wrote:

Dear Sir / Madam,

As per the Suggestions given in the BoS Meeting conducted on 01-03-2021, 10.00 AM. I am here with attaching the updated syllabus copy of BEE theory and Lab, I Year I & II Sem Structure.

I require your concern and approval for the I Year I & II Sem Structure and Syllabus of BEE Theory and Lab for putting forward the same in the Academic Council.

I request you to give your approval through email.

Thanking you

*With Regards,*



**Dr A V Pavan Kumar**  
Associate Professor, Department of EEE  
**Head of the Department - EEE**

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Email: [eeehod@mits.ac.in](mailto:eeehod@mits.ac.in)

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Siva Kumar K, Ph.D,  
Associate Professor,  
Department of Electrical Engineering,  
Indian Institute of Technology Hyderabad,  
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# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC - Autonomous)

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapuramu)

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## Department of Electrical & Electronics Engineering

### Minutes of 7<sup>th</sup> Board of Studies Meeting Held on 16-08-2020

The 7<sup>th</sup> BoS Meeting is held on 16-08-2020 at 10.30am in the Microsoft Teams, Dept. of EEE, MITS, Madanapalle.

#### Agenda

1. Discussion on R-18, B. Tech. curriculum structure from III year I & II Sem.
2. Discussion on Minor Program Structure.
3. Discussion on Honours Structure for EEE.
4. M. Tech. R-20 Curriculum structure from I year I & II Sem.
5. Any other matter with the permission of the chair.

#### Members Present:

1. Dr. A. V. Pavan Kumar, Chairperson  
HoD, Dept. of EEE, MITS.
2. Prof. P.S. Nagendra Rao, Member – Subject Expert  
Professor, Dept. of EE, IIT, Dharwad
3. Dr. K. Siva Kumar, Member – Subject Expert  
Assoc. Professor, Dept. of EE, IIT, Hyderabad
4. Dr. P. Raja, Member – University Nominee  
Assoc. Professor, Dept. of EEE, NIT, Tiruchirappalli
5. Ms. B.R. Sushma, Member – Meritorious Alumnus  
Scientist, DRDO, Bangalore *(Sushma) 24/AUG/2020*
6. Dr. M. Ilampooman, Member  
Professor, Dept. of EEE, MITS.
7. Dr. C. Kamal Basha, Member  
Professor, Dept. of EEE, MITS.
8. Dr. Rajendraprasad Narne, Member  
Assoc. Professor, Dept. of EEE, MITS.
9. Dr. M. Chakkarapani, Member  
Assoc. Professor, Dept. of EEE, MITS.
10. Dr. Hira Singh Sachdev, Member  
Sr. Asst. Professor, Dept. of EEE, MITS.
11. Dr. M. Vijay, Member  
Sr. Asst. Professor, Dept. of EEE, MITS.



### Suggestions on Curriculum & Structure (UG-R18 & PG – R20)

1. Grouping of Discipline electives needs to be regrouped such that each group contains specialization courses like (PS, PE, CS and Electronics etc.)
2. Safety needs to be taken while doing the power system-1 laboratory.
3. The power system Laboratory – I outcomes should be measured and discussed in the next meeting.
4. The syllabus content of Power system-1 course content of Unit: I & V needs slight modifications.
5. In the syllabus content of Power Electronics Unit IV third harmonic PWM renamed as carrier based SVPWM and Introduction of Fly back converter instead of CUK converter in Unit III.
6. Lecture hours of Control Systems Design course needs to be rearranged depending on the content.
7. The experiment name of Power System Lab – II experiments need to be revisited.
8. Two Minor programme structures needs to be implemented one for circuit branches and other for the non-circuit branches.
9. M. Tech structure needs to be reorganized like first semester more core courses and one mathematics course.
10. The courses offered in the Honours program need to revisit and courses should be offered which contains domains like (PS, PE, CS, Drives and Electronics etc.)
11. The detailed syllabus pertaining to III year I & II Sem is approved and ratified.
12. The structure and detailed syllabus of Minor Program offer by EEE Dept. up to III year I & II Sem are approved.
13. The syllabus content of the core and discipline elective courses can be appropriately modified for making it consistent if necessary. BoS authorizes the chairperson and IDC for making appropriate changes.

*Susma BR*  
24/08/2020  
(Susma BR)

BoS Chairperson