

# **Board of Studies**

**Meeting held on**

**28-05-2022**

**Proceedings**



**Electrical Engineering Department**  
**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute, Affiliated to RGPV, Bhopal)

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**Electrical Engineering Department**

Date: 28-05-2022

**Minutes of Meeting Board of Studies**

The Board of Studies (BoS) meeting of Electrical Engineering Department was held Online on 28 May 2022 from 11:00 AM onwards. Following external members were invited in addition to the faculty members of the department:

1. **Dr. A.K. Sharma**, Principal, JEC Jabalpur (VC, RGPV nominee)
2. **Dr. Mukhtiar Singh**, Professor, Electrical Engineering Department, DTU Delhi (Subject Expert)
3. **Dr. D.K. Chaturvedi**, Professor, Electrical Engineering Department, DEI Agra, (Subject Expert)
4. **Er. R.K Mahapatra**, AGM, BHEL, Jhansi (Industry Expert)
5. **Er. Dileep Dixit**, DGM, NTPC, Delhi, (Alumnus)

Due to some unavoidable reasons, Dr. Mukhtiar Singh, Professor, Electrical Engineering Department, DTU Delhi, could not make to attend the meeting.

In addition to above mentioned external members, following Internal members attended the meeting:

1. **Dr. Sulochana Wadhvani**, Professor & Head
2. **Dr. Manjaree Pandit**, Professor & Dean Academics
3. **Dr. A.K. Wadhvani**, Professor
4. **Prof. Ashis Patra**, Associate Professor
5. **Dr. Shishir Dixit**, Associate Professor
6. **Prof. Rakesh Narvey**, Assistant Professor
7. **Dr. Himmat Singh**, Assistant Professor
8. **Dr. Vijay Bhuria**, Assistant Professor
9. **Prof. Kuldeep K. Swarnkar**, Assistant Professor
10. **Prof. Praveen Bansal**, Assistant Professor
11. **Prof. Vishal Chaudhary**, Assistant Professor
12. **Dr. Vikram**, Assistant Professor
13. **Prof. Ankit Tiwari**, Assistant Professor
14. **Prof. Nikhil Paliwal**, Assistant Professor
15. **Dr. Yashwant Sawle**, Assistant Professor
16. **Prof. Nipun Gupta**, Assistant Professor
17. **Prof. Rahul Sagwal**, Assistant Professor
18. **Prof. Bhavna Rathore**, Assistant Professor
19. **Prof. Saurabh K. Rajput**, Assistant Professor
20. **Prof. Manoj Kumar**, Assistant Professor

In addition, the following student member were also present:

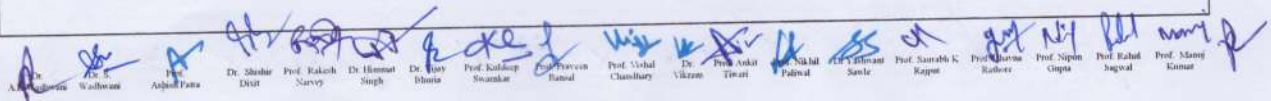
1. **Ikshita Trivedi**, B Tech III Year &
2. **Aryan Sharma**, B Tech III Year

  
A.K. Sharma, Dr. S. Wadhvani, Prof. Ashish Patra, Dr. Shishir Dixit, Prof. Rakesh Narvey, Dr. Himmat Singh, Dr. Vijay Bhuria, Prof. Kuldeep Swarnkar, Prof. Praveen Bansal, Prof. Vishal Chaudhary, Dr. Vikram, Prof. Ankit Tiwari, Prof. Nikhil Paliwal, Dr. Yashwant Sawle, Prof. Saurabh K. Rajput, Prof. Bhavna Rathore, Prof. Nipun Gupta, Prof. Rahul Sagwal, Prof. Manoj Kumar

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**Electrical Engineering Department**

The Agenda-wise summary of the BoS meeting is as follows:

Item EE1	<p>To confirm the minutes of the previous BoS meeting held if December 2021.</p> <p>The minutes of the last BoS held on 22<sup>nd</sup> December 2021 were confirmed. The BoS Minutes were presented &amp; approved in Academic Council Meeting held on 28/12/2021.</p>																														
Item EE2	<p>To prepare and finalize the scheme structure of B. Tech. VII Semester with the provision of Two Departmental Electives (DEs) and Two Open Category (OC) Courses (in which one Departmental Elective is to be offered in online mode with credit transfer) for the batch admitted in 2019-20.</p> <p>The scheme structure of B. Tech. VII Semester for the batch admitted in 2019-20 is prepared and is annexed at ANNEXURE-1</p>																														
Item EE3	<p>To prepare and finalize the syllabus of courses to be offered (for batch admitted in 2019-20) under Departmental Elective (DE) Course (in traditional mode) for B.Tech. VII Semester along with their COs</p> <p>Departmental Electives (DE3): In this session, two new DE courses are proposed to be offered to the students of 2019-20 admitted batch. The list of DE courses proposed for VII Semester in traditional mode is:</p> <ul style="list-style-type: none"> <li>• 130713-IoT in Microgrid</li> <li>• 130715-Electric Vehicle</li> <li>• 130716-Biomedical Instrumentation</li> </ul> <p>The syllabi along with the course outcomes are at ANNEXURE-2.</p>																														
Item EE4	<p>To propose the list of courses which the students can opt from SWAYAM/NPTEL/MOOC based Platforms, to be offered in online mode under Departmental Elective (DE) Course, with credit transfer in the B.Tech. VII Semester under the flexible curriculum (Batch admitted in 2019-20)</p> <p>The DE courses taken from SWAYAM/NPTEL/MOOC Platform for VII Semester (Batch admitted in 2018-19) are:</p> <p style="text-align: center;"><b>Details of Departmental Elective (DE-4): SWAYAM/NPTEL/MOOC</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>Course Name</th> <th>Offered By</th> <th>Duration of the course</th> <th>Start date</th> <th>End date</th> <th>Exam date</th> <th>Name of the Mentor faculty</th> </tr> </thead> <tbody> <tr> <td>130751</td> <td>Introduction to Smart Grid</td> <td>IITR</td> <td>8 Weeks</td> <td>July 25, 2022</td> <td>September 16, 2022</td> <td>September 25, 2022</td> <td>Dr. H. Singh</td> </tr> <tr> <td>130755</td> <td>Fundamentals of Electric Drives</td> <td>IITK</td> <td>8 Weeks</td> <td>July 25, 2022</td> <td>September 16, 2022</td> <td>September 25, 2022</td> <td>Prof. Manoj Kumar</td> </tr> </tbody> </table>							Code	Course Name	Offered By	Duration of the course	Start date	End date	Exam date	Name of the Mentor faculty	130751	Introduction to Smart Grid	IITR	8 Weeks	July 25, 2022	September 16, 2022	September 25, 2022	Dr. H. Singh	130755	Fundamentals of Electric Drives	IITK	8 Weeks	July 25, 2022	September 16, 2022	September 25, 2022	Prof. Manoj Kumar
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Item EE5	<p>To prepare and finalize the syllabus of courses to be offered (for batch admitted in 2019-20) under the Open Category (OC) Courses (in traditional mode) for B.Tech. VII semester students of other departments along with their COs</p>																														



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## Electrical Engineering Department

Following is the list of OC courses proposed for the VII Semester (Batch admitted in 2019-20), for students of other branches

Category	Course Name	Course code
Open Category (OC2)	Applications of Electrical Equipment & Motors	900205
	Sensor Technology	900230
Open Category (OC3)	IoT in Microgrid	900216
	Electric Vehicle	900217

The syllabi along with Course Outcomes (COs) are included in ANNEXURE -3.

Item EE6

To prepare and finalize the Experiment list/ Lab manual for Departmental Laboratory Course (DLC) to be offered in B.Tech. VII semester (for batches admitted in 2019-20)

The name of the Departmental Laboratory Course DLC along with the list of experiments and course outcomes is annexed at ANNEXURE-4.

Item EE7

To propose the list of "Additional Courses" which can be opted for getting an Honours (for students of the host department) Minor Specialization (for students of other departments) [These will be offered through SWAYAM/NPTEL/MOOC for the B.Tech. VII semester students (for the batch admitted in 2019-20)] and for B.Tech. V semester (for the batch admitted in 2020-21)]

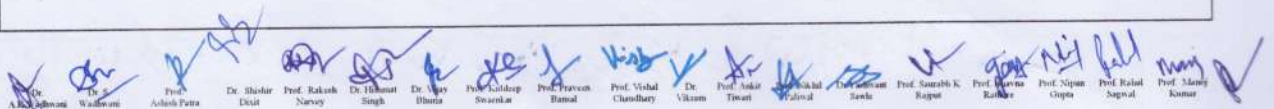
(i) Following courses are identified & proposed for V Semester for their requirement towards getting Honors (Batch admitted in 2020-21)

### B. Tech. V Semester (Honors)

(For students of the host department: Electrical Engineering)

S. No	Course Name	Offered By	Duration of the course	Start date	End Date	Exam date	Name of the Mentor faculty
1.	Introduction to internet of things	IITKGP	12 Weeks	July 25, 2022	October 14, 2022	October 29, 2022	Prof. Bhavna Rathore
2.	Introduction to Industry 4.0 and Industrial Internet of Things	IITKGP	12 Weeks	July 25, 2022	October 14, 2022	October 30, 2022	Prof. Praveen Bansal
3.	Design of photovoltaic systems	IISc	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 30, 2022	Prof Saurabh K Rajput
4.	Introduction To Machine Learning	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Dr Vikram.
5.	Programming, Data Structures And Algorithms Using Python	CMI, IITM	8 Weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Prof Nipun Gupta

Note: Credit for opting a particular NPTEL course will be given only once throughout the tenure of B.Tech. program



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## Electrical Engineering Department

### B. Tech. V Semester (Honors)

(For students of the host department: EE-IoT)

S. No	Course Name	Offered By	Duration of the course	Start date	End Date	Exam date	Name of the Mentor faculty
1.	Software Engineering	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 30, 2022	Prof Praveen Bansal
2.	Introduction To Machine Learning	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Dr Vikram
3.	Computer Graphics	IITG	8 weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Prof Bhavna Rathore
4.	Programming, Data Structures And Algorithms Using Python	CMI, IITM	8 Weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Prof Nipun Gupta

Note: Credit for opting a particular NPTEL course will be given only once throughout the tenure of B.Tech. program

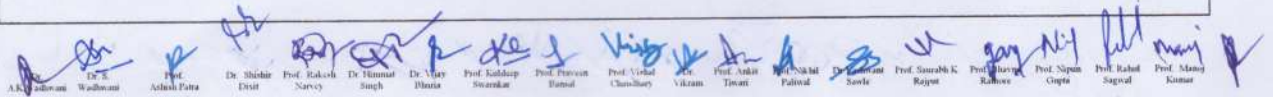
Following courses are identified & proposed for VII Semester for their requirement towards getting Honors (Batch admitted in 2019-20)

### B. Tech. VII Semester (Honors)

(For students of the host department)

S. No	Course Name	Offered By	Duration of the course	Start date	End Date	Exam date	Name of the Mentor faculty
1.	Power System Analysis	IITKGP	12 Weeks	July 25, 2022	October 14, 2022	October 30, 2022	Prof Vishal Chaudhary
2.	Introduction to Industry 4.0 and Industrial Internet of Things	IITKGP	12 Weeks	July 25, 2022	October 14, 2022	October 30, 2022	Prof. Praveen Bansal
3.	DC Microgrid and Control System	IITR	8 Weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Prof Nikhil Paliwal
4.	Programming, Data Structures And Algorithms Using Python	CMI, IITM	8 Weeks	Jul 25, 2022	Sep 16, 2022	Sep 25, 2022	Prof. Nipun Gupta
5.	Introduction To Machine Learning	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Dr Vikram

Note: Credit for opting a particular NPTEL course will be given only once throughout the tenure of B.Tech. program



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(ii) *Minor Specialization (for students of other departments)*

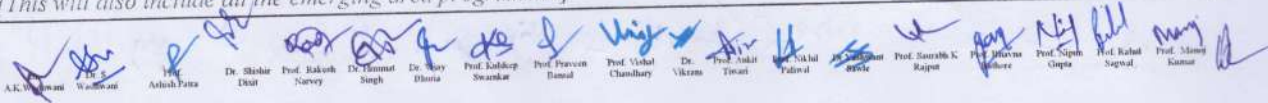
Following courses are identified & proposed for their requirement towards getting Minor Speciation in Electrical Engineering:

The pool of domain specialization is available on  
<https://nptel.ac.in/noc/Domain/discipline.html>

NPTEL Domain	Course Name	Offered By	Duration of the course	Start date	End date	Exam date	Name of the Mentor faculty
Track A: Power Systems and Power Electronics	Basic Electrical Circuits	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Prof. Saurabh K. Rajput
	Control engineering	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Prof. Ashis Patra
	Electrical Machines - I	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Prof. Nipun Gupta
	Electrical Measurement and Electronic Instruments	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Prof Ankit Tiwari
Track B: Control and Instrumentation	Basic Electrical Circuits	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Prof. Saurabh K. Rajput
	Control engineering	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Prof. Ashis Patra
	Electrical Measurement and Electronic Instruments	IITKGP	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Prof Ankit Tiwari
	Linear Systems Theory	IITM	12 Weeks	Jul 25, 2022	Oct 14, 2022	Oct 29, 2022	Dr. Vikram

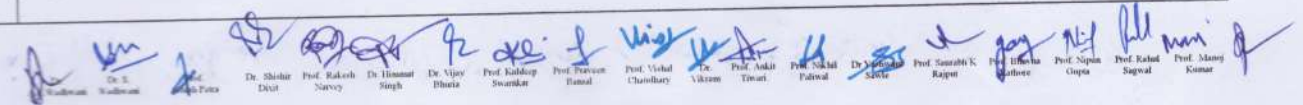
Note: Credit for opting a particular NPTEL course will be given only once throughout the tenure of B.Tech. program

- Item EE8** To prepare and recommend the scheme structure of B.Tech. V Semester under the flexible curriculum (Batch admitted in 2020-21)  
*[This will also include all the emerging area programmes]*  
The Scheme structure of V semester of the B.Tech V Semester EE and B.Tech V Semester EE-IoT of 2020-21 admitted batches under the flexible curriculum is at ANNEXURE -5.
- Item EE9** To prepare and recommend the syllabi for all Departmental Core (DC) Courses of B.Tech. V Semester (for batch admitted in 2020-21) under the flexible curriculum along with their COs.  
*[This will also include all the emerging area programmes]*  
The Syllabi along with the Course Outcomes of V semester of the B.Tech (EE, EE-IoT) students of 2020-21 admitted batch under the flexible curriculum is included at ANNEXURE-6.
- Item EE10** To prepare and recommend the Experiment list/ Lab manual for all the Laboratory Courses to be offered in B.Tech.V semester (for batch admitted in 2020-21)  
*[This will also include all the emerging area programmes]*


  
 A.K. Wadhvani, Ashish Patra, Dr. Shishir Dixit, Prof. Rakosh Narve, Dr. Hemant Singh, Dr. Ravjitha, Prof. Kishor Swankar, Prof. Praveen Dasa, Prof. Vishal Chandhary, Dr. Vikram, Prof. Ankit Tiwari, Prof. Nipun Gupta, Prof. Saurabh K. Rajput, Prof. Divyanshu, Prof. Suresh Gupta, Prof. Kalpal Singh, Prof. Manoj Kumar

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	The Experiment list/ Lab manual along with the Course Outcomes of V semester of the B.Tech (EE, EE-IoT) students of 2020-21 admitted batch under the flexible curriculum is included at ANNEXURE-7.																																																															
Item EE11	<p>To prepare and recommend the suggestive list of projects which can be assigned under the 'Skill based mini-project' category in various laboratory components based courses to be offered in B.Tech. V Semester (for the batch admitted in 2020-21). <i>[This will also include all the emerging area programmes]</i></p> <p>List of projects which can be assigned under the 'Skill based mini-project' category in various laboratory components based courses to be offered in B.Tech. V Semester (EE, EE-IoT) students of 2020-21 admitted batch under the flexible curriculum is included at ANNEXURE-8</p>																																																															
Item EE12	<p>To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (for batch admitted in 2020-21) in online mode under Self-Learning/ Presentation, in the B.Tech. V Semester <i>[This will also include all the emerging area programmes]</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S. No</th> <th>Course Name</th> <th>Offered By</th> <th>Duration of the course</th> <th>Start date</th> <th>End date</th> <th>Exam date</th> </tr> </thead> <tbody> <tr> <td></td> <td>Big Data Computing</td> <td>IIT Patna</td> <td>8 Weeks</td> <td>Aug 22, 2022</td> <td>Oct 14, 2022</td> <td>Oct 29, 2022</td> </tr> <tr> <td></td> <td>C Programming and Assembly Language</td> <td>IITM</td> <td>4 Weeks</td> <td>Jul 25, 2022</td> <td>Aug 19, 2022</td> <td>Sep 25, 2022</td> </tr> <tr> <td></td> <td>Patent Drafting for Beginners</td> <td>IITM</td> <td>4 Weeks</td> <td>Jul 25, 2022</td> <td>Aug 19, 2022</td> <td>Sep 25, 2022</td> </tr> <tr> <td></td> <td>Water, Society and Sustainability</td> <td>IITKGP</td> <td>4 Weeks</td> <td>Aug 22, 2022</td> <td>Sep 16, 2022</td> <td>Oct 30, 2022</td> </tr> <tr> <td></td> <td>Laplace transform</td> <td>IMSc</td> <td>4 Weeks</td> <td>Jul 25, 2022</td> <td>Aug 19, 2022</td> <td>Sep 25, 2022</td> </tr> <tr> <td></td> <td>Introduction to Quantum Computing: Quantum Algorithms and Qiskit</td> <td>IBM and IITM</td> <td>4 Weeks</td> <td>Jul 25, 2022</td> <td>Aug 19, 2022</td> <td>Sep 25, 2022</td> </tr> <tr> <td></td> <td>Electrocardiogram - Interpretation and application in clinical practice</td> <td>IITM</td> <td>4 Weeks</td> <td>Jul 25, 2022</td> <td>Aug 19, 2022</td> <td>Sep 25, 2022</td> </tr> <tr> <td></td> <td>Gender Justice And Workplace Security</td> <td>IITKGP</td> <td>4 Weeks</td> <td>Sep 16, 2022</td> <td>Oct 29, 2022</td> <td>Aug 22, 2022</td> </tr> </tbody> </table>	S. No	Course Name	Offered By	Duration of the course	Start date	End date	Exam date		Big Data Computing	IIT Patna	8 Weeks	Aug 22, 2022	Oct 14, 2022	Oct 29, 2022		C Programming and Assembly Language	IITM	4 Weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022		Patent Drafting for Beginners	IITM	4 Weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022		Water, Society and Sustainability	IITKGP	4 Weeks	Aug 22, 2022	Sep 16, 2022	Oct 30, 2022		Laplace transform	IMSc	4 Weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022		Introduction to Quantum Computing: Quantum Algorithms and Qiskit	IBM and IITM	4 Weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022		Electrocardiogram - Interpretation and application in clinical practice	IITM	4 Weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022		Gender Justice And Workplace Security	IITKGP	4 Weeks	Sep 16, 2022	Oct 29, 2022	Aug 22, 2022
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	Gender Justice And Workplace Security	IITKGP	4 Weeks	Sep 16, 2022	Oct 29, 2022	Aug 22, 2022																																																										
Item EE13	To prepare and recommend the <b>Scheme &amp; Syllabi (along with the Course Outcomes) of B.Tech. III semester of the newly started B. Tech. programmes in the emerging areas (AI &amp; ML, AI &amp; DS, CSD) (started from 2021-22 Session)</b> <i>{Applicable for the concerned departments}</i> <p style="text-align: center;">N/A</p>																																																															
Item EE14	To prepare and recommend the list of experiments and skill based mini projects of <b>B.Tech. III semester of the newly started B. Tech. programmes in the emerging areas (AI &amp; ML, AI &amp; DS, CSD) (started from 2021-22 Session)</b> <i>{Applicable for the concerned departments}</i> <p style="text-align: center;">N/A</p>																																																															
Item EE15	To review, prepare, finalize and recommend the <b>Scheme &amp; Syllabi (along with the Course Outcomes) of III semester B. Tech. programmes (batch admitted 2021-22 Session)</b> <i>{(all traditional and emerging area programmes (IT-IoT, AIR, EE-IoT, MAC))}</i>																																																															



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	The Scheme & Syllabi (along with the Course Outcomes) of the B.Tech III Semester EE and B.Tech III Semester EE-IoT of 2021-22 admitted batch under the flexible curriculum is at ANNEXURE -9.																																																																				
Item EE16	<p>To review, prepare, finalize and recommend the list of experiments/ Lab manual and skill based mini projects for various laboratory courses to be offered in III Semester (for the batch admitted in 2021-22).{(all traditional and emerging area programmes (IT-IoT, AIR, EE-IoT, MAC))}</p> <p>The Experiment list/ Lab manual and skill based mini projects for various laboratory courses to be offered in along with the Course Outcomes of III semester of the B.Tech (EE, EE-IoT) students of 2021-22 admitted batch under the flexible curriculum is included at ANNEXURE-10.</p>																																																																				
Item EE17	<p>To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (for batches admitted in 2021-22) in online mode under Self-Learning/ Presentation, in the III Semester (all traditional and emerging area programmes (IT-IoT, AIR, EE-IoT, MAC, AI&amp;DS, AI&amp; ML, CSD))</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>S. No.</th> <th>Course Name</th> <th>Offered By</th> <th>Duration of the course</th> <th>Start date</th> <th>End date</th> <th>Exam date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Big Data Computing</td> <td>IIT Patna</td> <td>8 Weeks</td> <td>Aug 22, 2022</td> <td>Oct 14, 2022</td> <td>Oct 29, 2022</td> </tr> <tr> <td>2.</td> <td>C Programming and Assembly Language</td> <td>IITM</td> <td>4 Weeks</td> <td>Jul 25, 2022</td> <td>Aug 19, 2022</td> <td>Sep 25, 2022</td> </tr> <tr> <td>3.</td> <td>Patent Drafting for Beginners</td> <td>IITM</td> <td>4 Weeks</td> <td>Jul 25, 2022</td> <td>Aug 19, 2022</td> <td>Sep 25, 2022</td> </tr> <tr> <td>4.</td> <td>Water, Society and Sustainability</td> <td>IITKGP</td> <td>4 Weeks</td> <td>Aug 22, 2022</td> <td>Sep 16, 2022</td> <td>Oct 30, 2022</td> </tr> <tr> <td>5.</td> <td>Laplace transform</td> <td>IMSc</td> <td>4 Weeks</td> <td>Jul 25, 2022</td> <td>Aug 19, 2022</td> <td>Sep 25, 2022</td> </tr> <tr> <td>6.</td> <td>Introduction to Quantum Computing: Quantum Algorithms and Qiskit</td> <td>IBM and IITM</td> <td>4 Weeks</td> <td>Jul 25, 2022</td> <td>Aug 19, 2022</td> <td>Sep 25, 2022</td> </tr> <tr> <td>7.</td> <td>Electrocardiogram - Interpretation and application in clinical practice</td> <td>IITM</td> <td>4 Weeks</td> <td>Jul 25, 2022</td> <td>Aug 19, 2022</td> <td>Sep 25, 2022</td> </tr> <tr> <td>8.</td> <td>Gender Justice And Workplace Security</td> <td>IITKGP</td> <td>4 Weeks</td> <td>Sep 16, 2022</td> <td>Oct 29, 2022</td> <td>Aug 22, 2022</td> </tr> </tbody> </table>						S. No.	Course Name	Offered By	Duration of the course	Start date	End date	Exam date	1.	Big Data Computing	IIT Patna	8 Weeks	Aug 22, 2022	Oct 14, 2022	Oct 29, 2022	2.	C Programming and Assembly Language	IITM	4 Weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022	3.	Patent Drafting for Beginners	IITM	4 Weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022	4.	Water, Society and Sustainability	IITKGP	4 Weeks	Aug 22, 2022	Sep 16, 2022	Oct 30, 2022	5.	Laplace transform	IMSc	4 Weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022	6.	Introduction to Quantum Computing: Quantum Algorithms and Qiskit	IBM and IITM	4 Weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022	7.	Electrocardiogram - Interpretation and application in clinical practice	IITM	4 Weeks	Jul 25, 2022	Aug 19, 2022	Sep 25, 2022	8.	Gender Justice And Workplace Security	IITKGP	4 Weeks	Sep 16, 2022	Oct 29, 2022	Aug 22, 2022
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Item EE18	<p>To review the Scheme &amp; Syllabi, list of experiments and skill-based mini projects of the First semester of the B. Tech. programmes (for the batch 2022-23). (all traditional and emerging area programmes)</p> <p>The Scheme &amp; Syllabi, Experiment list/ Lab manual skill-based mini projects for various laboratory courses to be offered along with the Course Outcomes of I semester of the B.Tech. (EE, EE-IoT) students of the 2022-23 admitted batch under the flexible curriculum is included at ANNEXURE-11.</p>																																																																				
Item EE19	<p>To review the CO attainments, identify gaps, and suggest the corrective measures for the improvement in the CO attainment levels for (i) I year November 2021 – February 2022 Semester (ii) July-December 2021 Session for II to IV year students</p> <p>The CO attainments for each course was computed by the respective faculty are compiled for the November. The gap in attainment, if any, was identified and the corrective actions to be taken were proposed by the subject faculty is reviewed. The CO attainment level of the subject in the above duration is annexed at ANNEXURE -12.</p>																																																																				





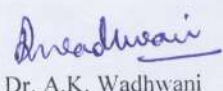
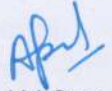

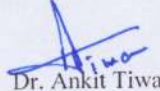

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**Electrical Engineering Department**

	<p>The summary of CO attained/ not attained is given below:</p> <table border="1"> <thead> <tr> <th>Total No of courses</th> <th>Total No of COs</th> <th>No of COs not attained</th> <th>Percentage of COs not attained</th> </tr> </thead> <tbody> <tr> <td align="center">35</td> <td align="center">193</td> <td align="center">04</td> <td align="center">2.07%</td> </tr> </tbody> </table>	Total No of courses	Total No of COs	No of COs not attained	Percentage of COs not attained	35	193	04	2.07%
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Item EE20	<p>To review PO attainment of the 2017-2021 batch, CO-PO mapping matrix with attainments and gap analysis <b>ANNEXURE -13.</b></p>								
Item EE21	<p><b>To review curricula feedback from various stakeholders, its analysis, and impact</b> {Stakeholder feedback analysis must also contain an Action Taken Report (ATR) and the details/data of the stakeholders who have responded through GOOGLE form (such as name, organization, mail id, phone no., if available) must also be shared along with the feedback of the alumni/employer} <b>The Feedback on the curriculum is taken from the Stakeholder (students, faculty, Alumni, and Employer in online mode using Moodle &amp; google Forms. The analysis is carried out on a scale of 1-5. Few suggestions were received from the alumni &amp; employer. Some of them are already in place. The feedback analysis is annexed at ANNEXURE -14.</b></p>								
Item EE22	<p><b>To review the Course Outcomes (COs) feedback of various courses, its analysis, and ATR</b> <b>The CO feedback on various courses was taken from the students as a part of indirect assessment. The subject faculty reviewed and analyzed the feedback. The actions to be taken to improve ANNEXURE -15</b></p>								
Item EE23	<p><b>Any other matter: ME ISD II Semester</b></p> <ol style="list-style-type: none"> <li>The list of MOOC Course from NPTEL offered July-December 2022 for M.E. (ISD) is identified and is annexed at ANNEXURE -16.</li> <li>Additional Seminar/Self Study topics for UG III &amp; V Semester (Based on BUREAU OF ENERGY EFFICIENCY) (Eco Niwas Samhita 2021: Code Compliance and Part-II: ElectroMechanical and Renewable Energy Systems) is annexed at ANNEXURE -17.</li> <li>Syllabi of MOOCs being developed is annexed at ANNEXURE -18.</li> <li>Contents of SIP &amp; skill enhancement programme(SEP)/ (earlier named as Finishing School/Value added courses) is annexed at ANNEXURE -19.</li> <li>Domain specific Novel Engaging Courses (NEC) being offered by the faculty of the department is annexed at ANNEXURE -20.</li> <li>List of projects to be assigned to the students in the next semester is annexed at ANNEXURE -21.</li> <li>New experiments/labs being designed for offering in the next semester, etc is annexed at ANNEXURE -22.</li> </ol>								
	<p>In the meeting, the following has been suggested by the external members:</p> <ol style="list-style-type: none"> <li>In future, if credit structure permits, Bio-Medical Engineering Lab should be included as a part of DLC.</li> <li>The contents of the newly added course on "Embedded Control of Electrical Machines" for V semester, EE-IoT are discussed in details and appreciated. However, it was also suggested to include a course on IoT based Monitoring of Equipment.</li> </ol>								


  
 A.K. Mishra, Nishant, Anshu Prasad, Dr. Shubir Dixit, Prof. Rakesh Narve, Dr. Himmat Singh, Dr. Jyoti Bhatta, Prof. Kailash Swankar, Prof. Prakash Dasal, Prof. Ujjwal Chandra, Dr. Vikram Vikram, Prof. Ashutosh Tiwari, Prof. Nikhil Palival, Dr. Yashwanth Sankar, Prof. Samarth K. Rajput, Prof. Nitish Kulkarni, Prof. Nishu Gupta, Prof. Rahul Sengupta, Prof. Manoj Kumar

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|  | <p>3. The mechanism of CO attainment and Action taken has been discussed in detail.</p> <p>4. The list of subjects offered under Novel Engaging Courses (NEC) was appreciated as it offers many multi-disciplinary subjects such as Finance, Economics, Ethics, and NSS etc. for holistic development of the students.</p> <p>5. The practice for teaching the courses in the new emerging area by the faculty of Electrical Engineering is highly acknowledged.</p> |
|--|--|

 Dr. M. Pandit	 Dr. A.K. Wadhvani	 Dr. S. Wadhvani	 Prof. Ashish Patra	 Dr. Shishir Dixit
 Prof. Rakesh Narvey	 Dr. Himmat Singh	 Dr. Vijay Bhuria	 Prof. Kuldeep Swarnkar	 Prof. Praveen Bansal
 Prof. Vishal Chaudhary	 Dr. Vikram	 Dr. Ankit Tiwari	 Prof. Nikhil Paliwal	 Dr. Yashwant Sawle
 Prof. Nipun Gupta	 Prof. Rahul Sagwal	 Prof. Bhavna Rathore	 Prof. Saurabh K Rajput	 Prof. Manoj Kumar

