

Department of Electrical Engineering

Meeting of Board of Studies

Date and Time: 13th November 2024 (11.00 AM)

AGENDA

BoS/EE/2024/2.1	Welcome address and Opening Remarks by Chairman, Board of studies in the Department of Electrical Engineering
BoS/EE/2024/2.2	Confirmation of the Minutes of the last meeting of the Board of Studies in the Department of Electrical Engineering held on 10 th July 2024.
BoS/EE/2024/2.3	An important point will be discussed in the meeting regarding the framing of the common syllabus in all three campuses (IEM Kolkata, UEM Kolkata, and UEM Jaipur).
BoS/EE/2024/2.4	In reference to the above given point, discussion on common syllabus structure and detailed syllabus of B. Tech (EE) 6 th semester (Batch 2022).
BoS/EE/2024/2.5	Any other items
BoS/EE/2024/2.6	Suggestions given by the BoS members.



UNIVERSITY OF ENGINEERING & MANAGEMENT, JAIPUR

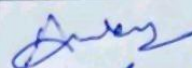
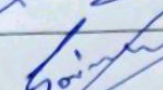

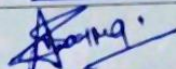
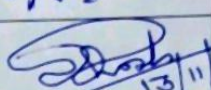
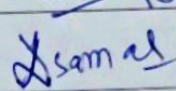
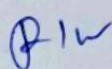
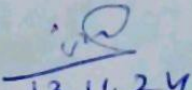
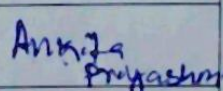
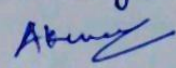
(Approved by AICTE and recognized by UGC, Ministry of HRD, Govt. of INDIA)

'Gurukul', 6 Kms. from Chomu on Sikar Road, Udaipuria Mod, Chomu, Jaipur-303807 (Rajasthan)

Phone : 01423-205168, Email: vc@uem.edu.in, Website : www.uem.edu.in

Department of Electrical Engineering

Attendance sheet for Board of Studies held on 13/11/2024

Sr. No.	Name	Designation	Signature
1	Dr. Ankit Kumar Sharma Associate Professor and Head / EE	Chairman	
2	Dr. Govind Rai Goyal Associate Professor / EE	Internal Members	
3	Dr. Shubhajit Pal, Associate Professor / EE		
4	Mr. Samrat Saha Assistant Professor / EE		ABSENT
5	Mr. Ankit Kumar Sharma Assistant Professor / EE		
6	Mr. Pradipta Ghosh Assistant Professor / EE		
7	Mr. D. D. Samal Lecturer / EE		
8	Dr. Rajive Tiwari Professor, Department of Electrical Engineering, Malaviya National Institute of Technology Jaipur Rajasthan	Academic Expert	
9	Dr. Sunanda Sinha Assistant Professor, Centre for Energy & Environment, Malaviya National Institute of Technology Jaipur Rajasthan		ONLINE MODE
10	Dr. Vinod Kumar Yadav Associate Professor, College of Technology and Engineering, (CTAE), Maharana Pratap University of Agriculture and Technology, Udaipur		ONLINE MODE
11	Mr. S. R Jangid Vice President (Projects), M/S Suncity Urja Pvt. Ltd. 83, Devi Nagar, Sodala, Jaipur (Retd. SE, RRVNL, Rajasthan)	Industrial Expert	
12	Mr. Deepak Mishra Sr. Manager, Supply Chain Management Tata Projects Limited Noida International Airport, Jewar, G. B. Nagar, Greater Noida, UP		ONLINE MODE
13	Ms. Ankita Priyadarshini Indus Tower Pvt. Ltd.	Meritorious Alumnus	
14	Mr. Anish Kumawat Final Year B. Tech. / EE	Student Members	

City Office : 212, Apex Tower, Lal Kothi, Tonk Road, Jaipur - 302015 (Rajasthan) Tel.: 0141- 4063336

Kolkata Office : 'ASHRAM', GN-34/2, Sec.V, Salt Lake Electronics Complex, Kolkata - 700091 (W.B.) Website : www.iemcal.com

Phone : 033 - 2357 2059, Fax : 033 - 2357 2995 Email : admin@iemcal.com

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Department of Electrical Engineering

Minutes of the Board of Studies Meeting

Date and Time: 13th Nov. 2024 (10.30 AM)

The Meeting of the Board of studies of the Electrical Engineering was held on 13th November, 2024 at 10.30 AM in the Department of Electrical Engineering, University of Engineering and Management, Jaipur-303807.

The following members were present:

Sr. No.	Name	Designation
1	Dr. Ankit Kumar Sharma Associate Professor and Head / EE	Chairman
2	Dr. Govind Rai Goyal Associate Professor / EE	Internal Members
3	Dr. Shubhajit Pal, Assistant Professor / EE	
4	Mr. Samrat Saha Assistant Professor / EE	
5	Mr. Ankit Kumar Sharma Assistant Professor / EE	
6	Mr. Debadatta Samal Lecturer / EE	Academic Expert
7	Dr. Rajive Tiwari Professor and Head, Department of Electrical Engineering, Malaviya National Institute of Technology Jaipur Rajasthan	
8	Dr. Sunanda Sinha Assistant Professor, Centre for Energy & Environment, Malaviya National Institute of Technology Jaipur Rajasthan	
9	Dr. Vinod Kumar Yadav Associate Professor, College of Technology and Engineering, (CTAE), Maharana Pratap University of Agriculture and Technology, Udaipur	



Sr. No.	Name	Designation
10	Mr. S. R Jangid Vice President (Projects), M/S Suncity Urja Pvt. Limited. 83, Devi Nagar, Sodala, Jaipur (Retd. SE, RRVPNL, Rajasthan)	Industrial Expert
11	Mr. Deepak Mishra, Senior Manager, Supply Chain Management, TATA Projects Ltd., Noida International Airport, Jewar, Gr. Noida, U.P.	
12	Ms. Ankita Priyadarshini Indus Tower Pvt. Ltd.	Meritorious Alumnus
13	Mr. Anish Kumawat Final Year B. Tech. / EE	Student Member

Welcome Address and Opening Remarks by Chairman, Board of Studies in the Department of Electrical Engineering

BoS/EE/2024/2.1

The Chairman, BoS of the Electrical Engineering welcomed and introduced the members of Board of Studies.

Confirmation of the Minutes of The Last Meeting of Board of Studies in The Department of Electrical Engineering held on 10th July 2024.

BoS/EE/2024/2.2

The minutes of the last Board of Studies meeting held on 10th July 2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.

Discussed in the Meeting Regarding the Framing of the Common Scheme and Syllabus in All Three Campuses (IEM Kolkata, UEM Kolkata, and UEM Jaipur).

BoS/EE/2024/2.3

- The new schemes framed for B.Tech. 3rd Year (6th semester) in Electrical Engineering (Batch 2022), applicable in all three campuses (IEM Kolkata, UEM Kolkata, and UEM Jaipur) are given below.
- Detailed updated syllabus for all the theory and practical papers of 6th semester, B.Tech (Electrical Engineering) is also attached.

Minutes of the Board of Studies Meeting



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Syllabus Structure:

Sl No	Type of Course	Course Code	Course Name	L	T	P	Total Contact Hours	Credit Points
1	Professional Core Courses	PCC-EE 601	Power System-II (Operation and Control)	3	1	0	4	3
2	Professional Core Courses	PCC-EE 602	Microprocessor & Microcontroller	3	0	0	3	3
3	Professional Core Courses	PCC-EE 603	Measurement and Instrumentation	2	0	0	2	2
4	Professional Elective Courses	PEC-EE 601	A. Wind and Solar Power Energy System B. Electric Vehicles	3	0	0	3	3
5	Open Elective Courses	OEC-EE 601	A. IoT B. AI & ML C. Industrial Automation- II	2	0	0	2	2
6	Humanities and social sciences including Management	HSMCEE 601	Principles of Management	2	0	0	2	2
7	Humanities and social sciences including Management	HSMC (EE) 602	ESSENTIAL STUDIES FOR PROFESSIONAL- VI	2	0	0	2	0.5
8	Professional Core Courses	PCC-EE 691	Power System Laboratory - II	0	0	3	3	1
9	Professional Core Courses	PCC-EE 692	Microprocessor & Microcontroller Laboratory	0	0	3	3	1
10	Professional Core Courses	PCC-EE 693	Measurement and Instrumentation Laboratory	0	0	3	3	1
11	Professional Elective Courses	PEC-EE 691	A. Wind and Solar Power Energy System Laboratory B. Electric Vehicles	0	0	3	3	1
12	Humanities and social sciences including	SDP 681	Skill Development for Professionals VI				2	0.5

Discussed in the meeting about the incorporation of GATE preparation in B.Tech 3rd Year (6th semester) in Electrical Engineering in course HSMC (EE) 602 Essential Studies for Professionals (ESP) VI

BoS/EE/2024/2.4

- Framed the syllabus for course HSMC (EE) 602 Essential Studies for Professionals (ESP) V based on the recent pattern of GATE exam and incorporated in B.Tech. 3rd Year (6th semester) in Electrical Engineering.
- Detailed syllabus for course HSMC (EE) 602 Essential Studies for Professionals (ESP) VI is attached.

BoS/EE/2024/2.5

- There should be more internship opportunities for students so that they can get hands on practice before getting jobs in industries.
- Lab instruments should be updated according to industry demand e.g. incorporation of megger instruments and digital instruments.

The members of board of studies had a brainstorming discussion and given suggestions for the quality improvement.

Minutes of the Board of Studies Meeting



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Semester VI [Third year]
Branch/Course: Electrical Engineering

Sl No	Type of Course	Course Code	Course Name	L	T	P	Total Contact Hours	Credit Points
1	Professional Core Courses	PCC-EE 601	Power System-II (Operation and Control)	3	1	0	4	3
2	Professional Core Courses	PCC-EE 602	Microprocessor & Microcontroller	3	0	0	3	3
3	Professional Core Courses	PCC-EE 603	Measurement and Instrumentation	2	0	0	2	2
4	Professional Elective Courses	PEC-EE 601	A. Wind and Solar Power Energy System B. Electric Vehicles	3	0	0	3	3
5	Open Elective Courses	OEC-EE 601	A. IoT B. AI & ML C. Industrial Automation- II	2	0	0	2	2
6	Humanities and social sciences including Management	HSMCEE 601	Principles of Management	2	0	0	2	2
7	Humanities and social sciences including Management	HSMC (EE) 602	ESSENTIAL STUDIES FOR PROFESSIONAL- VI	2	0	0	2	0.5
8	Professional Core Courses	PCC-EE 691	Power System Laboratory - II	0	0	3	3	1
9	Professional Core Courses	PCC-EE 692	Microprocessor & Microcontroller Laboratory	0	0	3	3	1
10	Professional Core Courses	PCC-EE 693	Measurement and Instrumentation Laboratory	0	0	3	3	1
11	Professional Elective Courses	PEC-EE 691	A. Wind and Solar Power Energy System Laboratory B. Electric Vehicles	0	0	3	3	1
12	Humanities and social sciences including	SDP 681	Skill Development for Professionals VI				2	0.5



	Management							
13	Project. Seminar and Industrial Training	PWEE681	Project IV				1	1
14	Massive Open Online Courses (MOOCs)	MOOCs	Massive Open Online Courses (MOOCs)					
15	Industry and Foreign Certification (IFC)	IFC	Industry and Foreign Certification (IFC)					
16	Mandatory Additional Requirements (MAR)	MAR681	Mandatory Additional Requirements (MAR)					
Total Credit Points of Semester				17	0	8	33	21

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UNIVERSITY OF ENGINEERING & MANAGEMENT, JAIPUR

DEPARTMENT OF ELECTRICAL ENGINEERING

1. **Scope and importance of the departments:**
In an academic setting, the scope of an Electrical Engineering department is focused on both foundational education and specialized knowledge that prepares students for successful careers in the field. Electrical engineering departments emphasize hands-on experience through labs, workshops, and project-based learning. The department equips students with essential industry skills, including problem-solving, project management, teamwork, and communication.
By encouraging creativity and innovation, the department enables students to contribute to advancements in technology. For students interested in research, academia, or specialized industry roles, the department serves as a launching pad to graduate studies. With access to research facilities and experienced faculty, students are prepared for further study in electrical engineering or related fields.
2. **Vision & Mission of the department:**
To promote specialized knowledge in the field of Electrical Engineering along with interdisciplinary awareness and to develop a framework to support the communicative and ethical needs of industry and society at global level.
The mission of the Department is to provide high quality and effective education in the field of Electrical Engineering.
3. **Year of Establishment:** 2011
4. **Details of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., Short term courses, Career oriented courses, etc. (Academic year 2021 to 2022, 2022 to 2023, 2023 to 2024 and July, 2024 to 31st August, 2024)**

Sr No.	Programme level	Name of the programme/ Course	Duration	Entry qualification	Academic year	Sanctioned/ Approved student strength	No. of Students admitted		
							M	F	T
1	UG	B.Tech in Electrical Engineering	4 Years	Senior Secondary in PCM	2021 - 22	30	8	0	8
					2022 - 23	30	11	0	11
					2023 - 24	30	8	0	8
					2024 - 25	30	8	1	9
2	PG	M.Tech in Electrical Engineering	2 Years	B.Tech	2021 - 22	18	5	0	5
					2022 - 23	18	0	1	1
					2023 - 24	18	2	1	3
					2024 - 25	18	0	0	0
3	PG	Ph.D. in Electrical Engineering	3 Years	B.Tech/ M.Tech	2021 - 22	14	8	1	9
					2022 - 23	20	0	0	0
					2023 - 24	20	0	1	1
					2024 - 25	18	0	0	0

5. **Annual/ semester/choice based credit system/elective course pattern (programme wise)**

Programme	Pattern	Year of revision (if any)	Year of Implementation

6. **Number of Teaching and Non-teaching positions in the department**



Designation	Sanctioned	Filled
Professors	0	0
Associate Professors		3
Assistant Professors		3
Lecturer		1
Total		7

7. Faculty profile with name, qualification, designation, specialization, (Ph.D. / M. Phil. etc.,)

Sr. No.	Name of faculty	Qualification	Year of appointment	Designation	Specialization	Number of years of teaching experience
1.	Dr. Ankit Kumar Sharma	B.Tech, M.Tech., Ph.D	22.07.2019	Associate Professors	Power System	14 Years
2	Dr. Govind Rai Goyal	B.E., M.E., Ph.D	15.03.2022	Associate Professors	Power System	14 Years
3.	Dr. Shubhajit Pal	B.Tech. M.Tech., Ph.D	27.07.2015	Associate Professors	Power Electronics	10 Year
4.	Prof. Smarat Saha	B.Tech, M.Tech., PhD (Purs.)	17.08.2012	Assistant Professors	Power System	12 Years
5.	Prof. Ankit Kumar Sharma	B.Tech. M.Tech	27.08.2019	Assistant Professors	Power System	5 Years
6.	Prof. Pradipta Gosh	B.Tech., M.Tech., PhD (Purs.)	16.08.2024	Assistant Professors	High Voltage Engineering	5 Years
7.	Prof. Debadutta Samal	AMIE, M.Tech. (Purs.)	31.07.2015	Lecturer	Power System	23 Years

8. List of senior visiting faculty members

Sr. No.	Name of the faculty With contact details	Date/Year of appointment in the present Institution	Nature of appointment	Name of Previous Organisation	Designation in last served Organisation

9. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Name of the Post	Sanctioned	Filled

10. a) Ongoing /completed research projects running under faculty members funded by government and non-government agencies (Last three years)

Sr. No	Name of the Dept.	Name of the principal investigator and/or Co-PI	Year of sanction (sanc. Letter no. & date)	Title of the research project	Amount fund sanctioned/Received (1 st 2 nd Y/3 rd Y)	Name of funding agency	Duration of the project
1.	EE	Prof. (Dr.) Shubhajit Pal	2024 (UEMJ/2024/S/05-G30 & 24 th August 2024)	Solar-Assisted Wireless Charging	1 st Y	22650	1 Year



				Solution for EV			
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b) Total number of patents published/awarded year-wise during the period

Name of the Department	Name of the Patenter	Year of award of patent	Patent submitted /Filed/Published	Patent number	Title of the patent
EE	Dr. Ankit Kumar Sharma, Suhrid Halder, Jitendra Yadav, Ankita Priyadarshini	2023	Published	202311020864 A	An Automatic Upper Dipper Headlights
EE	Dr. Ankit Kumar Sharma, Sanjeet Kumar, Sonam Singh, Sandeep Kumar, Saurabh Kumar, Raj Kumar Netar	2023	Published	202311020861 A	A Bluetooth Control Robotics Car
EE	Mr. Samrat Saha, Debdatta Samal, Sanjeet Kumar, Sonam Singh, Sandeep Kumar, Saurabh Kumar, Raj Kumar Netar, Hitoishini Majumder	2023	Published	202311020382 A	A Grid Tie Solar System
EE	Shopan Dey, Afaq Ahmad, Sougata Banerjee, Dr. Aniruddha Mukherjee, Dr. Pradeep Kumar Sharma and Dr. Antima Sharma	2023	Published	202311028963	Smart Geo Fenced Attendance System with inbuilt IOT
EE	Afaq Ahmad, Shopan Dey, Sougata Banerjee, Dr. Aniruddha Mukherjee and Dr. Pradeep Kumar Sharma	2023	Published	202311004239	Glover - The glowing paver
EE	Govind Rai Goyal, Shelly Vadhera	2024	Published	202411052232	Estimation of lost electricity price signal using bandit optimization in context of smart grid,
EE	Jana, S., Biswas, P.K., Jana, A., Jana, P., Ghosh, P., Dey, S.K., Adhikary, S., Ghosh, C.	2024	Filed	Patent Application No. 202431031350, India (Filed).	Multi-Layered Four-Dimensional QR Code System with Biometric Authentication
EE	Jana, S., Biswas, P.K., Pattanayak, S.,	2024	Filed	Patent Application No.	Advanced AI-Driven Semi-Submersible Sensing System for



	Chandrasekhar, R., Ghosh, P., Banik, A., Majumder, A., Sharma, Y. K.			2024310348 08, India (Filed).	Dynamic Water Body Analysis
EE	Dr. Ankit Kumar Sharma, Dr. Akash Saxena, Dr. D.K. Palwalia, Dr. Bhanu Pratap Soni, Prof. Ramesh Bansal	2024	Published	2024110522 38 A	Intelligent Demand Response Simulation System with Real Time ricing and Peak Time Rebate

11. Research papers published in journals notified on UGC website (Last three years)

Sr. No	Name of Journal	Title of Research Paper	ISSN/ ISBN No	Impact Factor	Recognition in UGC enlistment of the journal/SCI/COPUS
1.	IETE Technical Review	Designing of a Reduced Switch MLI-Based Standalone Solar Inverter Suitable for Water Pump Application	0256-4602	2.5	SCI
2.	IEEE Transactions on Industry Applications	Open-loop Capacitor Voltage Balancing of a Nine-Level Packed U-Cell Converter	0093-9994	4.2	SCI
3.	IETE Technical Review	Power quality improvement of a reduced switch MLI using a modified ANN-based SHE technique	0256-4602	2.5	SCI
4.	Journal of Measurement: Sensors (MEASEN),	Solution to uncertainty of renewable energy sources and peak hour demand in smart grid system	2665-9174	NA	SCOPUS
5.	e-Prime-Advances in Electrical Engineering, Electronics and Energy	Reducing the ecological footprint and charging cost of electric vehicle charging station using renewable energy based power system	2772- 6711	NA	SCOPUS
6.	Electric Power Components and Systems	Smart home appliances' scheduling by two-stage optimization with real-time price model	1532-5008	2.5	SCI
7.	IEEE Transactions on Plasma Science	An Advanced Technique for Investigating the Moisture Effect on Next Generation Transformer Insulation Using Lightning Impulse Parameters	1939-9375	1.5	SCI
8.	Electrical Engineering	The effects of non-standard lightning impulse on electrical insulation: a review	1432-0487	1.6	SCI



9.	Electric Power Components and Systems, Taylor & Francis	A Systematic Approach to Improving Consumers' Comfort through on-Grid Renewable Energy Integration and Battery Storage	1532-5008 and 1532-5016	1.7	SCI
10.	Electric Power Components and Systems, Taylor & Francis	Calculation of Consumer Baseline Load for Residential Sectors in the Context of Smart Grid	1532-5008 and 1532-5016	1.7	SCI
11.	Expert Systems with Applications, Elsevier	Oppositional Slime Mould Algorithm: Development and application for designing demand side management controller	0957-4174	8.5	SCI
12.	Axioms, MDPI	A Demand Side Management Control Strategy Using RUNge Kutta Optimizer (RUN)	2075-1680	1.9	SCI
13.	International Transactions on Electrical Energy Systems, Wiley	Supervised learning-based demand response simulator with incorporation of real time pricing and peak time rebate	2050-7038	1.9	SCI
14.	Technology and Economics of Smart Grids and Sustainable Energy, Springer	Impact of Divergence in BBO on Efficient Energy Strategy of Demand Side Management	2731-8087	1.5	SCOPUS

12. Research papers published in National/International Conference-proceedings

Sr. No	Name of the Conference Seminar	Title of Research Paper	ISSN/ ISBN No	Place & Date	Affiliating Institute at the time of publication
1.	2023 10th IEEE International Conference on Power Systems (ICPS)	A Reduced Component Count MLI for Solar Power Generation	9798350318746	Cox's Bazar, Bangladesh	IIT Roorkee
2.	2023 5th International Conference on Sustainable Technologies for Industry 5.0 (STI)	A Single DC Source Multilevel Inverter for Stand-Alone Applications	9798350394320	Dhaka, Bangladesh	IIT Roorkee



3.	2023 7th International Conference on Computer Applications in Electrical Engineering-Recent Advances (CERA)	A Reduced Component Count Multilevel Inverter for Single and Three Phase Applications	9798350304992	Roorkee, India	IIT Roorkee
4.	2024 IEEE International Conference on Power, Electrical, Electronics and Industrial Applications	High Frequency Control Logic Design for Asymmetrical Input CHB Inverters	In Press (Presented)	Rajshahi, Bangladesh	UEM Jaipur
5.	First International Conference on Recent Advances in Smart Energy Systems & Intelligent Automation	Ant Lion Optimizer for Optimum Economic Dispatch for Multi Machine Generating System	Presented	NIT KURUKSHETRA	UEM Jaipur

13. Details of books and chapters in edited Volumes/Books published as Contributor/Editor

Sr. No	Title of the book/chapter published	National/ International	Year of publication	ISSN/ ISBN No	Name of the publisher

14. Name of research guides

Sr. No	Name of Research Guide	Department	PhD/MPHIL

15. Number of Ph. D/ M. Phil awarded by faculty

Sr. No	Name of Ph. D/M. Phil scholar	Department	Name of the Guide/s	Title of the thesis	Year of registration of scholar	Year of awards of Ph. D/ M. Phil.



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16. Faculty as chairman/members in National committees/International Committees/ Editorial Boards/ BOS/University committees etc.

Sr. No	Name of faculty	Department	Name of the body in which full time teacher participated	Member of editorial board	Reviewer
1.	Dr. Aniruddha Mukherjee	EE	MEDICON ENGINEERING THEMES JOURNAL (ISSN: 2834-7218)	Yes	No
2.	Dr. Aniruddha Mukherjee	EE	Proceedings of Second International Conference on Intelligent Energy Management in Smart Cities (ICIEMSC – 2022)	Yes	No
3.	Dr. Ankit Kumar Sharma	EE	Proceedings of Second International Conference on Intelligent Energy Management in Smart Cities (ICIEMSC – 2022)	Yes	No
4.	Dr. Shubhajit Pal	EE	IEEE Transactions on Industrial Electronics	No	Yes

17. Student undertaking field projects/ internships

a) Percentage of students who have done in-house projects including inter departmental/Programme

Sr. No	Program name	Course/Program code	Session	Name of Mentor	No. student undertaking field projects	Title of the Project	Place	Duration

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/society other agencies

Sr. No	Program name	Course/Program code	Session	Name of Mentor	No. student undertaking Projects in Res Lab/Industry/Society/Other agencies	Title of the Project	Place	Duration

18. Awards / Recognitions received by faculty



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Sr. No	Year of awards	Name of teachers receiving awards from University level/State level, National level, International level	Initiatives/Types of the initiative given by the Institute in recognition of the award	PAN	Designation	Name of the award, fellowship, received from government or recognized bodies

19. Numbers of awards / Medals for outstanding performance in sports/cultural activities in National/ International/ State level etc. received by students

Sr No	Year	Name of the students	Name of the Award/Medal	National/International/State etc.	Sports/Cultural	Aadhar/Student ID No.	

20. Students Qualifying in State/National/International level examination (NET, SET, GATE, GMAT, GRE, TOEFL/UPSC/MPSC/State government examination, etc.)

Sr No	Name of the students	Registration No./Roll No. of the Exam.	Number of students selected								
			SET	NET	GATE	GMAT	CAT	RGE	TOEFL	Civil services	State Govt. Examinations/Others
1	Suhrid Hal dar	747720112				1					

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21. Student progression to higher studies. UG to PG, PG to M. Phil., PG to Ph. D, M. Phil to Ph. D, Ph. D to post-Doctoral, etc. (Last Batch, 2023-2024)

a) UG to PG

Sr No	Pgm graduated from	Deptt. graduated from	Student Name	Name of the Inst. joined	Name of the pgm admitted
1.	B.Tech	Electrical	Suhrid Halder	IMS Business School, Kolkata	MBA

b) PG to M. Phil

Sr No	Pgm graduated from	Deptt. graduated from	Student Name	Name of the Inst. joined	Name of the pgm admitted

c) PG to Ph. D or M. Phil to Ph. D.

Sr No	Pgm graduated from	Deptt. graduated from	Student Name	Name of the Inst. joined	Name of the pgm admitted

22. Placement of outgoing students (Last five years: 2021-2024)

Sr No.	Year	Contact detail	Number of students placed	Name of the employer with contact details	Package received	Program graduated from
1	2024		3	Indus tower Pvt Ltd, Synergy Steels Pvt.Ltd, Manikaran Power Ltd.	6 LPA, 3.2 LPA	B.Tech (EE)
2	2023		5	Planet spark, Kirloskar , Tmra Dhatu Pvt Ltd	6LPA, 3.2LPA	B.Tech (EE)
3.	2022		5	PWC, BYJUS,Zucol india, skill max India Pvt Ltd.	10LPA, 6.5LPA 2.8 LPA	B.Tech (EE)
4	2021		3	Bright Champ Pvt Ltd, oxymora technologies	5LPA 2.8 LPA	B.Tech (EE)

23. List of alumni/contribution

Sr No	Name of Alumni	Year of Graduation/ Post-Graduation	Position held	Contact detail (Email, Mobile No.)	Quantum of Contribution	

24. List of eminent academicians and scientists / visitors to the department

Sr No.	Year	Name of Eminent academicians and Scientists	Position held (Present)	Name of the Institution working/last working	Contact detail (Email, Mobile No., etc.)	

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25. Seminars/ Conferences/Workshops/FDP organized & the source of funding

Sr No.	Year	Level National/ International/ State	Name of the event	Funding agency	Amount sanctioned	Durations (From-To)	Number of participants

26. Diversity of Students

Year	Name of the Course/programme	% of students from the State	% of students from other states	% of students from abroad
2021 - 22	B.Tech	75	25	0
2022 - 23		81	9	9
2023 - 24		100	0	0
2024 - 25		90	10	0
2021 - 22	M.Tech	40	60	0
2022 - 23		100	0	0
2023 - 24		33	67	0
2024 - 25		0	0	0
2021 - 22	Ph.D	33	67	0
2022 - 23		0	0	0
2023 - 24		0	100	0
2024 - 25		0	0	0

27. Departmental result

Year	Name of the Programme with Code	Course Code	Number of students appeared in the Final Year Exam.	Number of students passed in the Final Year Exam.	Pass percentage
2023 - 24	B.Tech	EE	3	3	100%
2022-2023	B.Tech	EE	8	8	100%
2021-2022	B.Tech	EE	8	8	100%
2020-2021	B.Tech	EE	3	3	100%

28. a) Number of days from the date of last semester-end/year-end Exam. Till the declaration of results during the year

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Programme name	Programme code	Semester/Year	Last date of the last semester-end/year-end Exam.	Date of declaration of results semester-end/year-end Exam.

b) Status of automation of examination division along with approved examination manual

100% automation of entire division & implementation of examination management system (EMS) [Y/N]	Student registration, Hall Ticket issue & Result processing are automated [Y/N]	Student registration & Result processing are automated [Y/N]	Result processing is only automated [Y/N]	Follow manual methods [Y/N]
Y	Y	Y	Y	N

29. Number of linkages for faculty exchange/student exchange/training/internship/field trips/job on training/research etc.

Sr No.	Year of commencement	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Nature of linkage

30. Number of functional MoU's with corporate houses/ industries/other institutes/Universities, etc.

Sr No.	Year of signing MoU	Name of the organisation/ institution/ industry/ corporate house with which MoU is signed	List the actual activities under each MoU year wise	Duration (From-To)	Number of students/teachers participated under MoUs

31. Details of Infrastructural facilities

a) Library

Sr No.	Year of purchase	Total budget of the Year	Expenditure incurred in Lakh	Name of Books	Publisher	Number of copies

b) ICT Facility etc.

Sr No.	Name of the Deptt.	No. of Class rooms with LCD/WiFi/LAN facility	No. of Smart Class room	No. of Laboratories	No. of Computer Laboratories



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c) List of Equipment/Instruments

Sr No.	Name of the Deptt.	Name/Model of Equipment	No. of Equipment below Rs 1.0 Lac	No. of Equipment below Rs 5.0 Lac	No. of Equipment above Rs 5.0 Lac
1.	Electrical Engg.	High Configuration PC (QT-10)	10		

32. Number of students receiving financial assistance from college, university, government or other agencies-

Sr. No.	Name of the Deptt.	Name of the student	Name of the Fellowship/ Financial assistance	Funding agency			
				University	State Govt.	National	Other

33. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Sr No.	Name of the Deptt.	Name of the Programmes (special lectures / workshops / seminar)	Duration	Funding agency (if any)	Name of the Expert with details	Total no. of beneficiaries
1	EE	Training on Achieving Problem Solution Fit of Solar PV Mounting Structures Using FEM Based Application.	3 Days	No	Prof. Paulami DasChoudhury , PhD (MNIT Pursuing)	43
2.	EE	Seminar on Renewable Energy Technologies and Developments	1Day	No	Mr. Sudhakar Sundaray	30

34. Teaching methods adopted to improve student learning-
- PowerPoint presentation
 - Some lessons are taught outside of the classroom (*Vachan Katta*)
 - Use of Video Clips
 - Project Work
 - Video Conferencing Lecture
 - Organized Workshop



- Online NPTEL courses
- Online NPTEL/UGC-SWAYAM lectures
- Students seminars
- Field projects/Survey
- Review of research papers
- Use of Adobe Acrobat reader

35. SWOC analysis of the department

a. Strengths:

1. The faculties are engaged in diverse topics such as Electrical Machine, Power System, Power Electronics, Smart Grid and Demand Side Management.
2. Our Labs are well equipped with sophisticated instruments of various machines, power distribution transmission and various circuit theory equipment.
3. The Dept. has an IEEE student Chapter.
4. The faculty are actively in outreach activities such as short-term courses, FDPs, Workshop.

b. Weaknesses:

1. The number of books in the departmental Library needs to be further enhanced.
2. The number of various types of software for different research labs should increase.
3. The Dept. need to bring more guest faculty from IIT, NIT and Industries to increase the exposure to its students.
4. The Dept. can move to ICT based classes.
5. The Dept. need to keep on increasing its infrastructure to support its PG student.

c. Opportunities:

1. More industry/academia collaboration with different universities/industry in India and abroad.
2. The Dept. can strive to get grants for research/consulting Project/trust from different national and international bodies.
3. Faculty/Student exchange program can be actively started.
4. The Dept. can get associated with different other professional bodies/chapters.
5. Incorporating cutting edge modern technologies in course curriculum.

d. Challenges:

1. The Dept. must develop excellent research facilities.
2. The Dept. must develop a strong fundamental base which enables the students to explore academic and collaborative interactions with industries, academia and research organization.



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3. The Dept. has to produce highly competent and resourceful young engineers who can perform well in various cutting-edge industries.

The Dept. must grow awareness within students that inspire people to care for themselves and their communities through large scale, sustainable and culturally appropriate health, education, environment and livelihood projects

36. Future plans:

a. Long term plans-

1. To establish new advanced technology centers in the emerging fields such as various modern controllers, designing technology in the field of Illumination and High voltage handling & its applications.
2. At least 50% of students should graduate with distinction.
3. To publish a Dept. Journal.
4. To organize an international conference.

b. Short term plans-

1. To develop domain specific expertise among Dept. faculty.
2. To motivate students towards industry related projects & provide them with necessary guidelines & facilities.

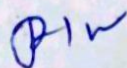
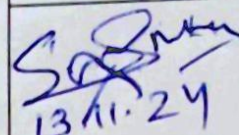
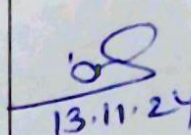
To make all departmental information available online that concerns students & staff.

37. Expert's Remarks:



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Report of Academic Audit validated by the Academic and Industrial Expert.

Sr. No.	Name	Designation	Signature
1	Dr. Rajive Tiwari Professor and Head, Department of Electrical Engineering, Malaviya National Institute of Technology Jaipur Rajasthan	Academic Expert	
2	Dr. Sunanda Sinha Assistant Professor, Centre for Energy & Environment, Malaviya National Institute of Technology Jaipur Rajasthan		 13.11.24
3	Mr. S. R Jangid Vice President (Projects), M/S Suncity Urja Pvt. Limited. 83, Devi Nagar, Sodala, Jaipur (Retd. SE, RRVPNL, Rajasthan)	Industrial Expert	 13.11.24





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Department of Electrical Engineering

Minutes of Meeting

External Academic Audit

Date and Time: 13th Nov. 2024 (12.00 PM)

The External Academic Audit of the Department of Electrical Engineering was held on 13th November, 2024 at 12.00 PM in the Department of Electrical Engineering, University of Engineering and Management, Jaipur-303807.

The following experts were present:

Sr. No.	Name	Designation
1	Dr. Rajive Tiwari Professor and Head, Department of Electrical Engineering, Malaviya National Institute of Technology Jaipur Rajasthan	Academic Expert
2	Dr. Sunanda Sinha Assistant Professor, Centre for Energy & Environment, Malaviya National Institute of Technology Jaipur Rajasthan	
3	Mr. S. R Jangid Vice President (Projects), M/S Suncity Urja Pvt. Limited. 83, Devi Nagar, Sodala, Jaipur (Retd. SE, RRVPNL, Rajasthan)	Industrial Expert

The following comments and suggestions were given by the expert members for the quality improvement.

- 1 Suggested to establish an IEEE student chapter in department.
- 2 Physical verification of lab equipment's should be done annually.
- 3 There should be a common outreach activities file for the faculty members of department.



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- 4 Departmental library register should be maintained and updated timely.
- 5 Departmental industrial visit file should be maintained and updated timely.
- 6 Lab equipment's movement register should be maintained
- 7 Prepare a departmental project lab separately to make and display good projects.
- 8 There should be a research file for the faculty members of department.

