

Madhav Institute of Technology & Science, Gwalior

Electrical Engineering



NEWSLETTER

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July - September 2018



Department of Electrical Engineering is one of the oldest departments established in 1957 at MITS campus. The department is dedicated to the teaching and research activities in the areas of Electrical, Electronics, Instrumentation & Control Engineering. The department educates the students to take up challenging jobs in a wide range of industries and engage themselves in research and development activities for the good of society. The syllabi of the courses are continuously updated and the laboratories modernized to reflect the rapid changes in technology. It also offers high quality research in the (M.E and Ph.D.) Programs. Courses offered by the department cater to learning needs from basics to the advanced level. Department offers variety of discipline electives and covers most of the modern technologies. It has state of the art laboratories to provide hands on experiences and support research activities.

Vision

“To Educate and Prepare World Class Engineers for Global and Social Technological Demands”

Mission

- To strive for excellence in teaching and research and to promote academic growth by offering state-of-the-art undergraduate, postgraduate and doctoral programmes.
- To generate new knowledge by engaging in cutting-edge research for overall development of students and society.
- To identify areas of specialization based on an informed perception of regional, national and global needs
- To undertake collaborative projects which offer opportunities for long-term interaction with academia and industry

Programme Educational Objectives (PEOs)

PEO-I - Graduates of the programme will have successful technical and professional careers.

PEO-II - Graduates of the programme will continue to learn and adapt in a world of constantly evolving technology.

PEO-III- Graduates of the programme will be able to apply, analyze, design and create products and solutions for real life Electrical Engineering problems.

PEO-IV- Graduates of the programme will be able to manage projects catering to current societal and industrial needs in an ethical manner working as members/leaders of multidisciplinary teams.

FACULTY OUTREACH

TRAINING PROGRAME/ FDP ATTENDED

Vishal Chaudhary, Hari Mohan Dubey, Manjaree Pandit, “Water Cycle Optimization for Non Convex Economic Dispatch” presented in International Conference on Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT) during 3-5 August, 2018 at Sardar Vallabhbhai National Institute of Technology, Surat, Gujrat.



S. No.	Name of Faculty	Name of Event	Event Venue	Date(S)	Duration
(1)	Prof. Ashish Patra	Energy Audit and Management	MITS Gwalior	29.9.2018	One day
(2)	Prof. Ashish Patra	How to write Patent	MITS Gwalior	21.7.2018	One day
(3)	Dr. Hari mohan dubey	Energy Audit and Management	MITS Gwalior	29.9.2018	One day
(4)	Dr. Hari mohan dubey	How to write Patent	MITS Gwalior	21.7.2018	One day
(5)	Dr. Shishir Dixit	Energy Audit and Management	MITS Gwalior	29.9.2018	One day
(6)	Dr. Shishir Dixit	How to write Patent	MITS Gwalior	21.7.2018	One day
(7)	Prof. Rakesh Narvey	Energy Audit and Management	MITS Gwalior	29.9.2018	One day
(8)	Prof. Rakesh Narvey	How to write Patent	MITS Gwalior	21.7.2018	One day
(9)	Prof. Himmat Singh	Energy Audit and Management	MITS Gwalior	29.9.2018	One day
(10)	Prof. Himmat Singh	How to write Patent	MITS Gwalior	21.7.2018	One day
(11)	Prof. Himmat Singh	IEEE Int. Conf. on Power,	Saveetha Engg.	21-22	Two days

	Singh	Control, Signals and Instrumentation Engineering (ICPCSI-2017)	College, Chennai, Tamil Nadu	September, 2017	
(12)	Dr. Vijay Bhuria	Energy Audit and Management	MITS Gwalior	29.9.2018	One day
(13)	Dr. Vijay Bhuria	How to write Patent	MITS Gwalior	21.7.2018	One day
(14)	Dr. Vijay Bhuria	IET Student Chapter activity Present Around The World Competition 2017	Amity University Noida	15 July 2017	One day
(15)	Dr Vijay Bhuria	Faculty Mentors on Induction Programme for new students	sgsits, Indore	22-24 September 2017	Three days
(16)	Prof. Kuldeep Swarnkar	Energy Audit and Management	MITS Gwalior	29.9.2018	One day
(17)	Prof. Kuldeep Swarnkar	How to write Patent	MITS Gwalior	21.7.2018	One day
(18)	Prof. Praveen Bansal	Summer Training Programme on Active Learning for Senior Faculty	IIT Indore	18-22 June 2018	One week
(19)	Prof. Vishal Chaudhary	Energy Audit and Management	MITS Gwalior	29.9.2018	One day
(20)	Prof. Vishal Chaudhary	How to write Patent	MITS Gwalior	21.7.2018	One day
(21)	Prof. Vishal Chaudhary	Short Term Course on “Advanced Optimization Techniques for Engineering Applications”	NIT, Kurukshetra, Haryana	13-17 January 2018	One week
(22)	Prof. Rahul Sagwal	Energy Audit and Management	MITS Gwalior	29 th September 2018	One day
(23)	Prof. Nipun Gupta	Energy Audit and Management	MITS Gwalior	29 th September 2018	One day
(24)	Prof. Bhavna Rathore	Energy Audit and Management	MITS Gwalior	29 th September 2018	One day
(25)	Prof. Shailendra Pratap Singh	Energy Audit and Management	MITS Gwalior	29 th September 2018	One day
(26)	Prof. Sourabh Rajput	Energy Audit and Management	MITS Gwalior	29 th September 2018	One day
(27)	Dr. Vikram	Energy Audit and Management	MITS Gwalior	29 th September 2018	One day

(28)	Prof. Sanjay Kulshreshtha	Energy Audit and Management	MITS Gwalior	29 th September 2018	One day
(29)	Prof. Avinash Sharma	Energy Audit and Management	MITS Gwalior	29 th September 2018	One day

STAFF SENT FOR TRAINING//WORKSHOP ETC.

S.No.	Name of Staff	Activity	Event Venue	Date(s)	Duration
1	Shashi Goel	Hands-on Practices on Lab-view NI-ELVIS	NITTTR Chandigarh	31 st July-04 th August-2018	One week

ACADEMIC ACTIVITIES CONDUCTED (WORKSHOPS)

S.No.	Topic	Date(S)
Advanced Optimization Techniques and Research Directions	16-17/09/19	Dr. R. Venkata Rao Professor, Department of Mechanical Engineering SVNIT, Surat
Entrepreneurship Development Program in Solar PV Energy	28/07/18	Mr Sparsh Bali, CEng (India), IEng (UK) MNRE Empaneled CEng, New Delhi
How to Write Patent	21/07/18	DR.N.K.Choubey, Sr. Principal Scientist & Incharge, Intellectual Property Facilitation Centre, Patent Information Centre & Technology Management Centre, Bhopal PARAG M. MORE, Trademark Attorney & IPR consultant Founder, Intellectual Platform, Mumbai

- TECHCELESTA National Level Technical Conclave organized by ISTE Students' Chapter MITS on 14th, 21st & 23rd September.





PROVIDING STUDENT SUPPORT, GUIDANCE, COUNSELLING AND ORIENTATION

S.No	Date	Session Topics	Class	Delivered By (Name of faculty/counsellor)
1.	09/07/2018	Orientation Programme	IInd Year	HOD and all faculty
2.	09/07/2018	Orientation Programme	IIIrd Year	HOD and all faculty
3.	09/07/2018	Orientation Programme	IVth Year	HOD and all faculty
4.	09/07/2018	Orientation Programme	ME Ist Year	HOD and all faculty
5.	09/07/2018	Orientation Programme	ME IInd Year	HOD and all faculty

MEMBERSHIP OF PROFESSIONAL SOCIETY CHAPTERS

S.No.	Name of Faculty	Professional Society	Membership Grade (LM, Fellow, etc.)
1.	Dr. Laxmi Srivastava	(1) Member of IEEE, Power Engineering Society (2) Indian Society for Technical Education (ISTE) (3) Institution of Electronics & telecommunication Engineers (IETE) (4) Computer Society of India (5) (CSI)Institution of Engineers, IE(I) (6) Indian Women Scientist Association (IWSA)	(1) Senior Member (2) LM (3) LM (4) LM (5) Fellow (6) LM
2.	Dr. Manjaree Pandit	(1) Indian Society for Technical Education (ISTE) (2) Institution of Electronics and Telecommunication Engineers (IETE) (3) Institution of Engineers (IE, India) (4) IET (UK)	(1) LM (2) Fellow (3) Fellow
3.	Dr. Arun Kumar Wadhvani	(1) Indian Society for Technical Education (ISTE) (2) Member IET	
4.	Dr. Sulochana Wadhvani	(1) Member IET	
5.	Prof. Ashish Patra	(1) Member IET	

6.	Dr.Hari Mohan Dubey	(1) Indian Society for Technical Education (ISTE) (2) Institution of Electronics & telecommunication Engineers (IETE) (3) Member of IEEE (4) Member IE (India) (5) Member IET(uk)	(1) LM (2) AM (3) Member (4) Member (5) Member
7.	Dr. Shishir Dixit	(1) Member IET	
8.	Prof. Rakesh Narvey	(1) Member IET	
9.	Prof. Himmat Singh Ahirwar	(1) Member IET	
10.	Dr. Vijay Bhuria	(1) Member IET	
11.	Prof. Kuldeep Kumar Swarnkar	(1) Member IET	
12.	Prof. Praveen Bansal	(1) Member IET	
13.	Prof. Vishal Chaudhary	(1) Indian Society for Technical Education (ISTE)	
19.	Dr. Vikram	(1) IEEE Membership (USA) (2) IEEE Young Professionals (3) IAENG (Hong Kong) (4) ILAS (USA)	(1) Graduate Member (2) Member (3) Member (4) Member
20.	Prof. Bhavna Rathore	(1) IEEE Membership (USA) (2) IEEE Power & Energy Society Membership (3) IEEE Industry Applications Society Membership (4) IEEE Women in Engineering Membership (5) IEEE Young Professionals	(5) Graduate Member (6) Member (7) Member (8) Member (9) Member

STUDENT PARTICIPATION IN TECHNICAL EVENTS

S.No.	Name	Date	Activity Detail in Brief	Level of Activity
(1)	Saurav Patel		Mind Maze event, Tryst 18	IIT Delhi
(2)	Ayush Tripathi		Mind Maze event, Tryst 18	IIT Delhi
(3)	Siddhant	26-27 July,	Rajasthan Hackathon 5.0	Bikaner

	Chauhan	2018		
(4)	Ankit Sahu	14-23 Sept, 2018	National Level Technical Conclave	MITS Gwalior
(5)	Shalu Singh	15 Sept, 2018	FOCUS photography Competition	MITS Gwalior
(6)	Ayushi Gupta		Capgemini Tech Challenge 2018	MITS Gwalior
(7)	Shalini Singh	13-14 Aug 2018	Mock Recruitment Drive	MITS Gwalior
(8)	Shalini Singh	22-23 Sept 2018	Antenna Designing Workshop	MITS Gwalior
(9)	Himanshu Kumar Singh	23 Sept 2018	IET On campus Fest	MITS Gwalior

NEW LABS ESTABLISHED/EQUIPMENTS PURCHASED THIS YEAR

S.No.	Name of New Lab	Name of New Equipments	Utilization Status [#]
1	Electrical machine lab	DC Shunt Motor coupled to DC Shunt Generator DC Compound Motor coupled with DC Shunt Generator DC Shunt Motor coupled to Mechanical Load (belt and pulley type) DC series Motor coupled to Mechanical Load (belt and pulley type) 3 Phase Slip ring & Squirrel Cage Induction Motor coupled to Mechanical Load. Three Phase 4 pole Slip ring Induction Motor coupled to 3 Phase 2 pole Slip ring Induction Motor Synchronous Motor coupled with DC Machine and a rotary exciter and static DC Source. DC Motor coupled to AC Generator DC Motor coupled to AC Generator. DC Machine coupled to Salient Pole alternator 1 phase Transformer Test set up Three Phase Transformer Test set up Three Phase Auto Transformer Servo Control Voltage Transformer AC Distribution Panel	Utilizing for be 2nd year
2	Power Electronics & Drives lab	Converter / Regulator Based Drives 1 Phase Input Converter / Regulator Based Drives (3	Utilizing for be 3rd and 4th year

		Phase) Three Phase Dual Converter Inverter Based Drives (1 Phase Input IGBT Based) Inverter Based Drives(3 Phase IGBT Based) Chopper Based Drives(3 Phase IGBT Based) Chopper Based Drives (4 Quadrant 3 Phase) TMS320F28335 DSP Based Motor Control Setup SCR Power Circuit For Half And Full Three Phase Converter / Regulator Bridges SCR Power Circuit For Half And Full Single Phase Converter / Regulator Bridges Single Phase Bulb Load On Acrylic Base With Holder Terminals Three Phase Bulb Load On Acrylic Base With Holder Terminals Three Phase Resistive Load Bank 3kw Single Phase AC Voltage Controller Using SCR And Triac Single Phase SCR Full Bridge Three Phase Cyclo Converter MOSFET Based Buck Boost Converter Forced Communication Circuits	
3	Control System Lab	Tuning of Controllers: (Digital Controller PC Based) Lead Lag Network Simulator Relay Control System Synchro-Transmitter Receiver Trainer Stepper Motor Characteristics Study Module Design of PID Controller Potentiometer Error Detector DC Servo Motor Controller	Utilizing for be 2nd year

STUDENT PLASEMENTS

Sr. No.	Name of Students	Branch	Year of Passing	Company Name
1	Akriti Jain	EE	2019	TCS, Trident Group
2	Alankrita Shrivastava	EE	2019	TCS, Trident Group
3	Anmol Dubolia	EE	2019	INFOSYS

4	Anuj Sharma	EE	2019	INFOSYS, Trident Group
5	Aryaj Chaurasia	EE	2019	INFOSYS
6	ASHUTOSH	EE	2019	INFOSYS
7	Ashwani Singh Bhadauria	EE	2019	INFOSYS
8	BHANU PRAKASH SHAH	EE	2019	Trident Group
9	Dheeraj Kumar Semekar	EE	2019	Tata Projects
10	Divyesh Kirar	EE	2019	INFOSYS
11	Girraj Rajput	EE	2019	Capgemini
12	Harshvardhan Ojha	EE	2019	INFOSYS
13	Khushboo Verma	EE	2019	INFOSYS
14	Manvendra Patel	EE	2019	Trident Group
15	Mohd Ishaan Khan	EE	2019	Capgemini
16	Palak Agrawal	EE	2019	INFOSYS
17	Prafull Arora	EE	2019	INFOSYS
18	Prasangika Rai	EE	2019	Tata Projects, Zycus
19	Shivani Yadav	EE	2019	INFOSYS
20	Siddhant Chauhan	EE	2019	INFOSYS, L&T, BYJU's, Trident Group
21	Siddharth Chandil	EE	2019	INFOSYS
22	Suyash Agrawal	EE	2019	INFOSYS
23	Tanishk Shukla	EE	2019	TCS
24	Vaibhav Agrawal	EE	2019	Capgemini
25	Vedanta	EE	2019	INFOSYS, Trident Group
26	Vikas Yadav	EE	2019	INFOSYS, Tata Projects
27	Akash Dubey	EE	2019	Trident Group
28	Aayush Jain	EE	2018	Accenture
29	Ankit Kekre	EE	2018	Accenture
30	Anurag Khandelwal	EE	2018	Accenture
31	Anushree Shrivastava	EE	2018	Accenture
32	Arshad Ahmed	EE	2018	Accenture
33	Ayush Singh Kushwah	EE	2018	Accenture
34	Ayushi Bhardwaj	EE	2018	Accenture
35	Bhumika Bairagi	EE	2018	Accenture
36	Chintan Gupta	EE	2018	Accenture
37	Divya Tripathi	EE	2018	Accenture
38	Ekta Shrivastava	EE	2018	Accenture
39	Gaurav Singh	EE	2018	Accenture
40	Ishita William	EE	2018	Accenture
41	Nidhi Solanki	EE	2018	Accenture
42	Piyush Soni	EE	2018	Accenture
43	Priyanka Panda	EE	2018	Accenture
44	Priyansh Dubey	EE	2018	Accenture
45	Rajul Nema	EE	2018	Accenture
46	Ritu Singh	EE	2018	Accenture

47	Shalini Shrivastava	EE	2018	Accenture
48	Shambhabi Saha Roy	EE	2018	Accenture
49	Shivani Rana	EE	2018	Accenture
50	Shriya Tiwari	EE	2018	Accenture
51	Soumya Shrotriya	EE	2018	Accenture
52	Swapnil Rajput	EE	2018	Accenture
53	Vaibhav Shrivastava	EE	2018	Accenture
54	Himanshu Mishra	EE	2018	IBM
55	Rajat Khotele	EE	2018	IBM
56	Rajul Nema	EE	2018	IBM
57	Sachin Bakodiya	EE	2018	IBM
58	Shambhabi Saha Roy	EE	2018	IBM
59	Vaibhav Shrivastava	EE	2018	IBM
60	Anurag Khandelwal	EE	2018	Capgemini
61	Sachin Upadhyay	EE	2018	Capgemini
62	Shriya Tiwari	EE	2018	Tata Projects
63	Ankit Kekre	EE	2018	Indian Oil-Adani Gas Pvt. Ltd
64	Anshul Sharma	EE	2018	Indian Oil-Adani Gas Pvt. Ltd
65	Abhay Kumar Tiwari	EE	2018	TradeIndia Research
66	Abhishek Kumar Gupta	EE	2018	TradeIndia Research
67	Ajay Singh	EE	2018	TradeIndia Research
68	Amit Kumar Mishra	EE	2018	TradeIndia Research
69	Ankur Singh	EE	2018	TradeInida Research
70	Ankush Kumar Singh	EE	2018	TradeInida Research
71	Bharti Gautam	EE	2018	TradeIndia Research
72	Himanshu Mishra	EE	2018	TradeIndia Research
73	Kapil Goyal	EE	2018	TradeIndia Research
74	Kumar Rishav	EE	2018	TradeIndia Research
75	Mohd Asif	EE	2018	TradeIndia Research
76	Nishant Mishra	EE	2018	TradeIndia Research
77	Pawan Nagwanshi	EE	2018	TradeIndia Research
78	Pradhumn Soni	EE	2018	TradeIndia Research
79	Rajendra Kumar Mandal	EE	2018	TradeIndia Research
80	Rupali Thakre	EE	2018	TradeIndia Research
81	Saurabh Shukla	EE	2018	TradeIndia Research
82	Shefali Soin	EE	2018	TradeIndia Research
83	Shivani Agrawal	EE	2018	TradeIndia Research
84	Shivi Tripathi	EE	2018	TradeIndia Research
85	Shubham Gupta	EE	2018	TradeIndia Research
86	Shuddatam Jain	EE	2018	TradeIndia Research
87	Vikas Khemariya	EE	2018	TradeIndia Research
88	Vishal Jain	EE	2018	TradeIndia Research

89	Vivek Bilavadiya	EE	2018	TradeIndia Research
90	Mohd Asif	EE	2018	Jamna Auto
91	Saurabh Shukla	EE	2018	Jamna Auto

INDUSTRIAL VISITS ORGANIZED

S.No.	Date	Name of Industry	No. of Students	No. of Faculty/ Staff	No. of Day(s)
1.	25.08.2018	M.P.E.B. – Roshni ghar (Gwalior): to study the SCADA systems, Electrical distribution, etc.	70	3	01

CITATION INDEX OF FACULTY MEMBERS AND IMPACT FACTOR OF JOURNALS

S.No	Faculty Name	Total citations of Google scholar Indexed Journals	Total Citations of web of science Indexed Journals	Total Citations of Scopus Indexed Journal papers
1.	DR. LAXMI SRIVASTAVA	905	554	554
2.	DR. MANJAREE PANDIT	1031	642	642
3.	DR. A. K. WADHWANI	204	94	94
4.	DR. SULOCHANA WADHWANI	147	29	29
5.	DR. HARIMOHAN DUBEY	428	205	205
6.	DR. SHISHIR DIXIT	104	28	28
7.	PROF. RAKESH NARVEY	65	0	0
8.	PROF. HIMMAT SINGH	94	47	47
9.	PROF. KULDEEP KUMAR SWARNKAR	65	0	0
10.	PROF. PRAVEEN BANSAL	14	0	0
11.	PROF. VISHAL CHAUDHARY	24	23	23
12.	PROF. VIKRAM	1	1	1
13.	PROF. RAHUL SAGWAL	2	0	0
14.	PROF. BHAVNA RATHORE	10	6	6

LIST OF PAPERS ACCEPTED/PUBLISHED IN JOURNALS

Name of Author(s)	Title of Paper	Name of Journal	National/ International	Volume	Pages	Month/Year of Publication
Hariom Rathore, Kuldeep Swarnkar	Economic Load Dispatch Using Genetic Algorithm	International Journal of Innovative Research in Technology	International	5	298-303	9/18
Jyoti Tomar, Kuldeep Swarnkar, Praveen Bansal	Comparison between Conventional H-Bridge MLI and Switched-Capacitors Based Multilevel Boost Inverter	International Journal for Science and Advance Research in Technology	International	4	841-845	7/18
V Saini, L Dewan	Sparse parameter estimation of LTI models with l^p sparsity using genetic algorithm	International Journal of Modelling, Identification and Control	International	29	14-21	2018

TEAM NEWSLETTER

Advisor – Dr. S.Wadhvani

Member - Prof. Kuldeep Kumar Swarnkar
Prof. Vishal Chaurdhary

Composed by- Mr.Devendra Singh