

# Madhav Institute of Technology & Science, Gwalior

## Electrical Engineering



### NEWSLETTER

Vol. 2, No. 4

October -December 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**  
**TRAINING PROGRAMME/ FDP ATTENDED**

S. No.	Name of Faculty	Name of Event	Event Venue	Date(S)	Duration
1.	Dr. Laxmi Srivastava	Advanced Optimization Techniques and Research Directions	MIT, Gwalior	16-17 Nov, 2018	Two days
2.	Prof. Ashish Patra	Advanced Optimization Techniques and Research Directions	MIT Gwalior	16-17 November 2018	Two days
3.	Dr. Sulochana Wadhwan	Advanced Optimization Techniques and Research Directions	MIT Gwalior	16-17 November 2018	Two days
4.	Dr. Hari mohan dubey	Advanced Optimization Techniques and Research Directions	MIT Gwalior	16-17 November 2018	Two days
5.	Dr. Shishir Dixit	Advanced Optimization Techniques and Research Directions	MIT Gwalior	16-17 November 2018	Two days
6.	Prof. Rakesh Narvey	Advanced Optimization Techniques and Research Directions	MIT Gwalior	16-17 November 2018	Two days
7.	Prof. Himmat Singh	Advanced Optimization Techniques and Research Directions	MIT Gwalior	16-17 November 2018	Two days
8.	Dr. Vijay Bhuria	Advanced Optimization Techniques and Research Directions	MIT Gwalior	16-17 November 2018	Two days
9.	Prof. Kuldeep Swarnkar	Advanced Optimization Techniques and Research Directions	MIT Gwalior	16-17 November 2018	Two days
10.	Prof. Praveen Bansal	National workshop on Power Electronics (NWPE-2017)	IIT, Roorkee India	9-11 October 2017	Three days
11.	Prof. Praveen Bansal	One Week short term course Resilient Power Grid Operation Using Synchrophasor Technology: A Smart Grid Operation Perspective	Delhi Technological University	December 17-21 ,2018	One Week

12.	Prof.Praveen Bansal	National IEEE Workshop on Power Electronics in Smart Grid & Optimal Power Trading Mechanism	Delhi Technological University	03 November 2018	One day
13.	Prof. Punjan Dohre	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days
14.	Prof. Punjan Dohre	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
15.	Prof. Rahul Sagwal	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
16.	Prof. Nipun Gupta	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days
17.	Prof. Nipun Gupta	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
18.	Prof. Bhavna Rathore	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days
19.	Prof. Bhavna Rathore	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
20.	Prof. Shailendra Pratap Singh	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days
21.	Prof. Shailendra Pratap Singh	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
22.	Prof. Sourabh Rajput	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days
23.	Prof. Sourabh Rajput	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
24.	Dr. Vikram	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days
25.	Dr. Vikram	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
26.	Prof. Shweta Kumari	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days

27.	Prof. Shweta Kumari	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
28.	Prof. Aparajita Kumari	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days
29.	Prof. Aparajita Kumari	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
30.	Prof. Sanjay Kulshreshtha	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days
31.	Prof. Sanjay Kulshreshtha	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
32.	Prof. Avinash Sharma	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days
33.	Prof. Avinash Sharma	Disaster: Risk & Management	MITG Gwalior	11 <sup>th</sup> October 2018	One day
34.	Prof. Manoj Kumar	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days
35.	Prof. Tarun Srivastva	Advanced Optimization Techniques and Research Directions	MITG Gwalior	16-17 November 2018	Two days

### STUDENT PARTICIPATION IN TECHNICAL EVENTS OUTSIDE COLLEGE PARTICIPATION IN TECHNICAL EVENTS OUTSIDE COLLEGE

S.No.	Name	Date	Activity Detail in Brief	Level of Activity
(1)	Jyoti Tomar	22-24 Oct, 2018	IEEE International Conference on Power Electronics, Intelligent Control & Energy Systems (ICPEICES)	DTU Delhi
(2)	Shashwat Tiwari	6-7 Dec, 2018	Southeastern- Atlantic Regional Conference on Differential Equation (SEARCDE)	Gainesville Campus of University of North Georgia
(3)	Saurav Patel		Mind Maze event, Tryst 18	IIT Delhi
(4)	Ayush Tripathi		Mind Maze event, Tryst 18	IIT Delhi



(5)	Nitish Shah		Incredible India Quiz 2018	Ministry of Tourism
(6)	Aman Saxena	02 Oct 2018	NSS Rally under clean India Campaign	Gwalior
(7)	Himanshu Kumar Singh		Digital Marketing Basic Course	Digital Deepak, Bengaluru

## NSS ACTIVITY

- Electrical Engineering Department second year student successfully organized the **NSS Rally Under Clean India Campaign** under the guidance of Prof. Vishal Chaudhary on 02<sup>nd</sup> October 2018.

**Come! And Pledge to keep India clean**

**MITS GWALIOR**  
ELECTRICAL ENGINEERING  
Department

**NATIONAL SERVICE  
SCHEME**  
-Awareness Program

**Rally on Swachh Bharat**  
- clean India

**Organised by -**  
Prof. Manish Sagar  
Prof. Vishal Chaudhary

**Date - 2 October, 2018**  
**Venue - MITS Gwalior Campus**  
**Time - 7 am**

**Contact for more Information -**  
Sunil Patel - 9340594892  
Tejas Meshram - 7748989031  
Arpita Singh - 9770442775

[Youtube/crazyysometimes/cleanIndia rally](https://www.youtube.com/watch?v=crazyysometimes/cleanIndia rally)





### स्टूडेंट्स ने निकाली रैली

ग्वालियर। एमआईटीएस की राष्ट्रीय सेवा योजना इकाई द्वारा गांधी जयंती के अवसर पर मंगलवार को 'स्वच्छ भारत अभियान रैली' निकालकर लोगों को स्वच्छता के प्रति जागरूक किया गया। कार्यक्रम के प्रारंभ में प्रो. मंझरी पंडित, डीन एकाडमिक राष्ट्रीय सेवा योजना

इकाई के प्रभारी डॉ. मनीष कुमार सागर, प्रो. विशाल चौधरी ने महात्मा गांधी की तस्वीर पर माल्यार्पण कर स्वयंसेवकों एवं शिक्षकों को स्वच्छता की शपथ दिलाई। सभी ने संकल्प लिया कि नहमगंदगी फैलाएंगे और न ही किसी को फैलाने देंगे। भारत को स्वच्छ बनाएंगे। इस दौरान निकाली गई रैली गोला का मंदिर होते हुए 7 नंबर तक पहुंची। इसके बाद

वैक कॉलोनी होते हुए कॉलेज परिसर में पहुंचकर समाप्त हुई। रैली में राष्ट्रीय सेव योजना के स्वयंसेवकों ने पोस्टर और बैनर के माध्यम से लोगों को स्वच्छता के प्रति जागरूक किया। इस अवसर पर अर्पिता सिंह, सुनील पटेल, अमन सक्सेना, अभिनव तोमर, तेजश मेशराम, आशी गुप्ता, अंशिका श्रीवास्तव, आदर्श शर्मा, रोहित शाक्य आदि उपस्थित थे।

## ACADEMIC ACTIVITIES CONDUCTED (EXPERT LECTURES)

S.No.	Name of Expert	Designation/Affiliation of the Expert	Title/Area of Lecture
1.	Mr. Satvinder Singh Maan,	ECBC master trainer, BEE Certified Energy Auditor	Energy Audit
2.	Er. Akshya Khare	General Manager, MPMKVVCL	Energy Management

## INVOLVEMENT OF FACULTY AS RESOURCE PERSONS

(Keynote Speaker, Expert Lecture, Invited Talk, Chief Guests... etc)

S.No	Name of Faculty	Role	Title of Event	Venue	Dates	Whether International/National/State/Regional/College or University Level
1.	Dr. M. Pandit	Keynote Speaker	Recent Advances in Machine Learning	UTD, RGPV, Bhopal	03-07/10/18	National Level

## CITATION INDEX OF FACULTY MEMBERS

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

## RESULT SUMMARY DECEMBER 2018

Programme	Course (UG/PG)	Semester	Appeared	Passed	% of Passed
B.Tech	UG	I	142	104	73
B.Tech	UG	III	135	100	74
B.E.	UG	V	148	134	90
B.E.	UG	VII	121	117	96
M.E. (ISD)	PG	I	13	8	61
M.E. (ISD)	PG	III	8	7	87



## LIST OF PAPERS ACCEPTED/PRESENTED/PUBLISHED IN CONFERENCES

Name of Author(s)	Title of Paper	Name of Conference	Venue	Month/Year of Publication
Kuldeep Rathore & Praveen Bansal	A New 15-Level Asymmetrical Multilevel Inverter Topology with Reduced Number of Devices for Different PWM Techniques	2 <sup>nd</sup> IEEE International Conference on Power Electronics, Intelligent control and energy systems (ICEPEICES-2018)	Delhi Technological University	October 22-24 2018
Shubham Kumar Gupta, Kuldeep Rathore & Praveen Bansal	Design and Analysis of a New 31-Level Asymmetrical Multilevel Inverter Topology with Different PWM Techniques	3 <sup>rd</sup> IEEE International Conference on Innovative Applications of Computational Intelligence on Power, Energy and Controls with their impact on Humanity (CIPECH-18)	KIET, Ghaziabad	November 1-2 2018
Shubham Kumar Gupta & Praveen Bansal	Reduced Device Count Asymmetrical Multilevel Inverter Topology with Different PWM Techniques	2 <sup>nd</sup> IEEE International Conference on Power Electronics, Intelligent control and energy systems (ICEPEICES-2018)	Delhi Technological University	October 22-24 2018
Jyoti Tomar, Kuldeep Swarnkar & Praveen Bansal	Analysis of Novel Five-level Boost Multilevel Structure using different PWM techniques	2 <sup>nd</sup> IEEE International Conference on Power Electronics, Intelligent control and energy systems (ICEPEICES-2018)	Delhi Technological University	October 22-24 2018



Ashwini Ojha & Praveen Bansal	Analysis of Different Modulation Schemes in Asymmetrical Multilevel Inverter	2 <sup>nd</sup> IEEE International Conference on Power Electronics, Intelligent control and energy systems (ICEPEICES-2018)	Delhi Technological University	October 22-24 2018
Deepak singh & Praveen Bansal	Reduced Device Count Switch Ladder Multilevel Inverter Topology	2 <sup>nd</sup> IEEE International Conference on Power Electronics, Intelligent control and energy systems, (ICEPEICES-2018)	Delhi Technological University	October 22-24 2018

### BOOKS/BOOK CHAPTERS PUBLISHED

S.No.	Name of Author(s)	Title of Book Chapter/eBook Published	Publisher	ISBN/EISBN
1.	Vishal Choudhry, Hari Mohan Dubey, and Manjaree Pandit	Water Cycle Optimization for Non Convex Economic Dispatch, Advanced Engineering Optimization Through Intelligent Techniques	Springer	Accepted for Publication
2.	Anand Singh Tomar, Hari Mohan Dubey, and Manjaree Pandit	Multiobjective Economic Emission Dispatch with Cubic Cost Function using Spider Monkey Optimization and TOPSIS, Advanced Engineering Optimization Through Intelligent Techniques.	Springer	Accepted for Publication

## ANY OTHER ACHIEVEMENT OF FACULTY/ STAFF /STUDENTS

- 1) **Prof.Praveen Bansal** ,Assistant Professor in Electrical Engineering department received an award from IIT Kanpur for Instrumental role as SPOC for securing 25th Rank of the Institute among 2200+ local chapters across country.
- 2) **Prof.Praveen Bansal**. Assistant Professor in department successfully completed PhD course in Delhi Technological University with CGPA of 9.11(Topped in the Institute)
- 3) **Mrs.Muskan Gupta** , student of BE IInd Year secured (Topper of 2%) Gold+Topper in NPTEL online course “Fundamentals of Electrical Engineering”

## TEAM NEWSLETTER

**Advisor** – Dr. S.Wadhvani

**Member** - Prof. Kuldeep Kumar Swarnkar

Prof. Vishal Chaurdhary

**Composed by-** Mr.Devendra Singh