



**Gyan Ganga**  
Institute of Technology & Sciences  
Jabalpur (M.P.)



# “Ele-Xpress”



*Department of  
Electrical & Electronics Engineering*

**Volume 3, Issue 1  
December 2020**

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P.O. Tilwara Ghat, Bargi Hills, Jabalpur, Madhya Pradesh Pin No. - 482003

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## PREFACE

The Department of has recorded consistent improvement in its academic, research, and placement performance. Department offers a range of innovatively designed programmes whose curricula are constantly updated to meet the changing requirements of the industry and also meet the needs of major stakeholders.

When publishing these newsletters, the only thing we had in mind was that they should reflect the outlook of the department in all aspects. Hereby, we, the editors, take the responsibility of ensuring the continuity of the issues in the years to come with improvements and richness every time. We are pretty sure that you will get a lot of useful information from it.

The department publishes the following newsletters and technical magazines. The departmental newsletter has four issues in a year; issue 1 publishes in the month of September, issue 2 publishes in the month of December, issue 3 publishes in the month of March, and issue 4 publishes in the month of June. Technical Magazine publishes one per year, i.e., in June of every year. The editorial board for both is common; there are four student members (one from each semester) and three faculty members on the editorial board.

## MISSION AND VISION OF THE INSTITUTE

### Vision of Institution :



- Initially to seek autonomy and eventually grow the Institute into a renowned University by:
- Imparting the best technical and professional education to the students of the Institute.
- Developing all the Departments of the Institute as Centers of Excellence.
- Creating the most congenial and cordial environment of Teaching, Learning and Research in the Institute.
- Conceiving world – class Education, Ethics and Employability for students in global perspective.

### Mission of Institution :



To explore and ensure the best environment to transform students into creative, knowledgeable, principled engineers and managers compatible with their abilities in ever-changing socio-economic and competitive scenario by :

- Imparting intensive teaching and training through latest technology
- Motivating the teachers for higher learning and innovative research activities with social services.
- Generating maximum opportunities for placement of students in National, Multi-National companies and nurturing entrepreneurship quality.
- Producing highly intellectual citizens through technical education to constitute an elegant society and meeting social challenges.

## MISSION AND VISION OF THE DEPARTMENT

### Vision of Department:

“The Department of Electrical and Electronics Engineering aims to achieve excellence by providing high quality teaching and learning process, inculcating ethical and moral values, innovation and research to produce skilled technocrats to meet the needs of the society.”

### Mission of Department:

The Department aims to realize the Vision through the following Mission by:

- Providing a quality engineering education by implementation of latest technologies and processes.
- Creating opportunities to carry out research and innovation and understand the importance of lifelong learning.
- Organizing student centric programs, trainings and make them employable in national and multinational organizations.
- Preparing them to be successful engineers and train them to provide sustainable solutions to the industry and society.





## EDITORIAL

### FROM PRINCIPAL DESK



It is a matter of great pride and satisfaction for GYAN GANGA INSTITUTE OF TECHNOLOGY & SCIENCES to bring out the News Letter 'Ele-Xpress' released from the Department of Electrical & Electronics Engineering. The College has made tremendous progress in all areas of academic, non-academics, capacity building relevant to staff and students.

I am confident that this issue of Department's News Letter will send a positive signal to the staff, students and the person who are interested in the Technical education and Technology based activities.. I congratulate the Editorial Board of this News Letter who have played wonderful role in accomplishing the task in record time. I express my deep sense of gratitude to Dr. Ruchi Pandey, HOD Department of Electrical & Electronics Engineering under whose guidance this Technical news latter has been undertaken and published within the stipulated time. Also my heartfelt Congratulations to staff members and Students for their fruitful effort. With Best Wishes

### FROM HOD'S DESK



It gives me great pleasure to congratulate students, teachers and staff of Department of Electrical And Electronics Engineering for the publication of newsletter "Ele-Xpress". It is a technical platform to bring out the hidden talents of students and faculty. The major strength of the department is a team of well qualified and dedicated faculties who are continuously supporting the students for their

academic excellence. Newsletter is believed to be a focus of the inside activities i.e. academics, students and faculty achievement as well as innovation occurring in the department. We have arranged several activity (academic & other) for our 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> year students during 1<sup>st</sup> April to 30<sup>th</sup> June 2023.



**Department of**  
**Electrical & Electronics Engineering**

## EVENTS ORGANIZED BY THE DEPARTMENT

### EXPERT TALK:

- Expert lecture on "Start up ideas" delivered by Mr. Nitish Mehta dated on 28/12/2020.
- Expert Lecture on "Raising Student Motivation During the Pandemic" delivered by Mr. Rahul Bajaj Managing Director RM Solar Green Energy Pvt. Ltd. Rewa dated on 28/11/2020.
- Guest Lecture on "Importance of Co-generation and coordination of power plant, their merits and demerits" delivered by Mr. Nikhil Adhikari Director ,N G Solar,Katni dated on 29/10/2020.
- Expert Lecture on "Industrial Applications of Power Electronics" delivered by Mr. J.P Giri Assistant Engineer, PGCIL, Jabalpur dated on 18/9/2020.
- Guest Lecture on "Challenges And opportunities: Core Companies, Higher Education And Entrepreneurship" delivered by Ms. Mukta Dengra dated on 21/8/2020.
- Expert Lecture on "Energy Audit" delivered by Dr Ruchi Pandey dated on 18/08/2020

### OTHERACTIVITY

- Students of all Semester of Department of Electrical & Electronics engineering organized "PAHEL 2k20" for all the class fourth employee of the institute.
- Webinar on "Electrical Engineering Opportunities In Public/Industrial Sectors" delivered by Mr. K. K. Murti, Retd. Chief Engineer, MPPKVVCL, Jabalpur dated on 31/10/2020.
- Webinar on "Recent trends in Electrical Technology" Mr. J.P Giri Assistant Engineer PGCIL, Jabalpur dated on 15/09/2020

## ACHIEVEMENTS

### PAPER PUBLICATION :

- Dr Ruchi Pandey Published A Paper "Analytical Approach On Energy Management System And Utilization In Madhya Pradesh For Paper Industry" On International Journal Of Innovation In Engineering Research & Management ISSN: 2348-4918 dated on 2020.
- Dr Ruchi Pandey Published A Paper "Analytical Estimation Of Plant Power Generation By PMFC (Performance, Limitations & Scope)" on International Journal of Recent Research In Electrical And Electronics Engineering (IJRREEE) Vol. 8, Issue 1, pp: (1-10), dated on 2020.



- Dr **Rajeev Kumar Chauhan** Published A Paper “An Approach Of Multistage Distribution System Network Expansion Planning Considering Investment, Operational Cost And Reliability Of System” on Indian Journal Of Science And Technology, Journal, Volume 13, Issue 30, Print ISSN : 0974-6846 Online ISSN : 0974-5645 dated on 19-08-2020.
- Dr **Rajeev Kumar Chauhan** Published A Paper Assessment Of Voltage Stability And Event Detection In Distribution Grid With Penetration Of Renewable Energy Sources on STM-Journal Of Software Engineering Tools & Technology Trends , Volume 7, Issue 3, ISSN: 2394-7292 dated on 2020.
- Mr Anand Goswami Published A Paper “**Analytical Estimation Of Plant Power Generation By PMFC (Performance, Limitations & Scope)**” on International Journal Of Recent Research In Electrical And Electronics Engineering (IJRREEE), Vol. 8, Issue 1, dated on 2020

## BOOKS / BOOK CHAPTERS PUBLICATIONS:

- Dr Ruchi Pandey Published a Book Chapter in book titled Trends and Innovation in Management, Commerce, Science, Engineering and Humanities by RFI International Book Publications, ISSN No.:- 978-93-89522-53-2, Year: 2020, Book Chapter No. - 19, pp.31-35, Title: A Reference Study and Fundamental Study on Inductor for Power Electronics Appliances.
- Dr Ruchi Pandey Published a Book Chapter in book titled Sustainable Development of Technology, Science, Pharmacy, Humanities and Management by RFI International Book Publications, ISBN No.:- 978-93-89522-21-1, Year: 2020, Book Chapter No. - 12, pp.71-75, Title: A Characteristic Analysis on Transitioning to Physics-of-Failure for Reliability Driver using Bipolar Device
- Dr Ruchi Pandey Published a Book Chapter in book titled Emerging Trends and Technologies in the Area of I.T., Science, Social Sciences, Commerce and Management (ICET-2020) by RFI International Book Publications, ISBN No.:- 978-93-89522-60-0, Year: 2020, Book Chapter No. - 13, pp. 93-97, Title: A Review on the Physics and Electronics Relation in History View.

## RESULTS



### RESULT: SESSION (JAN-JUN 2020)

#### VIII Semester

1.AKASH MOHBAY	( 0206EX161005)	9.38 SGPA
2.DEEKSHA DUBEY	(0206EX161015)	9.31 SGPA
3.DEEPAK VISHWAKARMA	(0208EX161006)	9.25 SGPA

#### VI Semester

1.ARSHIYA ALAM	(0206EX171012)	10 SGPA
2.ASHLEENA SHARLEY AIVEN	(0206EX171014)	10 SGPA
3.SOURABH	(0206EX171050)	9.88 SGPA

#### IV Semester

1. SHALINI CHOUBEY	(0206EX181041)	10 SGPA
2.AANCHAL KESARWANI	(0206EX181001)	10 SGPA
3.OJASVA CHOUBEY	(0206EX181029)	10 SGPA

#### II Semester

1.AKSHAT JAIN	(0206EX171012)	10 SGPA
2.NISHI DUBEY	(0206EX171014)	10 SGPA
3.RAKSHA PATLE	(0206EX171050)	10 SGPA



**PLACEMENTS:**

Following Students was selected the various company.

<b>CAYm3 (2019-2020)</b>				
<b>S.no.</b>	<b>Name of the student placed</b>	<b>Enrollment no.</b>	<b>Name of the Employer</b>	<b>Appointment letter reference no. with date</b>
1	Priya Sharma	0206EX161039	IBM	E-mail, dated Oct. 22, 2019
2	Prashi Tiwari	0206EX161038	Collabera	E-mail, dated Dec. 11, 2019
3	Deeksha Dubey	0206EX161015	Hexaware Technologies	E-mail, dated Sep. 19, 2019
4	Mahima Gupta	0206EX161025	Hexaware Technologies	E-mail, dated Sep. 19, 2019
5	Divya Soni	0206EX161018	Artech Ltd.	E-mail, dated Feb. 05, 2020
6	Pawan Tiwari	0206EX161036	Artech Ltd.	E-mail, dated Feb. 05, 2020
7	Aditya Kumar	0206EX161003	Bansal Wires Industries Ltd	Offer Letter Dated 7/6/2020
8	Akash Mohbey	0206EX161005	Bansal Wires Industries Ltd	Offer Letter Dated 7/6/2020
9	Aman Verma	0206EX161006	Bansal Wires Industries Ltd	Offer Letter Dated 7/6/2020
10	Anand Kishore	0206EX161007	Bansal Wires Industries Ltd	Offer Letter Dated 7/6/2020
11	Arpit Pandey	0206EX161009	Bansal Wires Industries Ltd	Offer Letter Dated 7/6/2020
12	Arun Singh	0206EX161010	Bhumika Cables Ltd	Offer Letter Dated 24/07/2020
13	Ayush Kumar Soni	0206EX161011	Bhumika Cables Ltd	Offer Letter Dated 24/07/2020
14	Deepak Vishwakarma	0208EX161006	Bhumika Cables Ltd	Offer Letter Dated 24/07/2020
15	Swati Verma	0206EX161058	Bhumika Cables Ltd	Offer Letter Dated 24/07/2020
16	Dhanveer Kumar Singh	0206EX161016	Bhumika Cables Ltd	Offer Letter Dated 24/07/2020
17	Gyanendra Mishra	0206EX161019	JBS PVT. LTD.	JBS/HR/20-21/201215
18	Hirendra Kumar	0206EX161022	JBS PVT. LTD.	JBS/HR/20-21/201215

**EDITORIAL TEAM**

**Faculty :-**

1. Dr Ruchi Pandey
2. Prof. Shalini Vaishya
3. Prof. Ashok Soni

**Students :-**

1. Ashleena S. Aiven
2. Shalini Choubey
3. Khushboo Agrawal
4. Shivahans Singh