



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

**GYAN GANGA**  
GROUP OF INSTITUTIONS  
Committed for Excellence



# “Ele-Xpress”

**Volume 5, Issue 2**  
**December - 2022**



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

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

Connect with us: [LinkedIn](#) [Facebook](#) [Instagram](#) [Twitter](#) [www.ggits.org](http://www.ggits.org)



## 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 letter 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.



## EVENTS ORGANIZED BY THE DEPARTMENT

### Expert Talk:

- Expert lecture on "Energy Efficiency" Dr. Ruchi Pandey dated on 19/11/2022.
- Expert Lecture On "Project Management of transmission substation, testing and commissioning, erection" delivered by Er. S. K. Mehta EE MPSEB dated on 06/11/2022.
- Expert Lecture On "Power distribution and power quality analysis" delivered by Er. Lokesh Dwivedi EE MPSEB dated on 01/11/2022.

### Other Activity

- Industrial Visit "Coca Cola Plant Richai Industrial area Jabalpur" dated on 23/12/2022.
- Industrial Visit "Rani Avanti Bai Sagar (Bargi), Hydroelectric Project, Jabalpur" dated on 15/10/2022.
- Students of all Semester of Department of Electrical & Electronics engineering organized "PAHEL 2k22" for all the class fourth employee of the institute.



- Ashutosh Patel of EX VIII semester won **Gold Medal** in RGPV State Athletics Championship 1500 Meter Race., Organized by RGPV Bhopal dated on November 2022.
- Karan Singh Thakur students of EX VIII semester won **Gold Medal** in State level boxing championship, Organized by RGPV Bhopal dated on November 2022.
- Faizan Ali students of EX III semester won **2<sup>nd</sup> position** in 15 National Mini Football Mini Championship 2022 Organized by Indian Mini Football Association dated on October 2022.
- Tanish Chourasia students of EX I semester won **Gold Medal** in Hospet Karnataka in National Boxing Championship 2022 dated on September 2022.



## ACHIEVEMENTS

### PAPER PUBLICATION :

- Dr Rajeev Kumar Chauhan published a paper topic “**Replacement Of LVDS To HVDS For Reduction In Distribution Losses, Improvement In Voltage Profiles And Economic Analysis For National Saving**” on Recent Advances In Electrical & Electronic Engineering, Volume 15, Issue 8, Pp: 17-29, ISSN (Print): 2352-0965 ISSN (Online): 2352-0973 dated on Oct 2022.
- Dr. Pawan Kumar Pandey published a paper topic “**A Review Article of Statcom Design And Inhancement Controlling Of Power Quality**” on International Journal Of Scientific Research & Engineering Trends , 8-5 , 2395 - 566 X dated on Oct 2022.
- Mr. Anand Goswami published a paper topic “**Biomass Gasification Of AGRO-Waste:- A Potential Assessment For Seoni Region-A Review**” on Journal Of Emerging Technologies And Innovative Research (JETIR) , Volume 9 Issue 06, ISSN 2348-4918 dated on Dec 2022.
- Dr Rajeev Kumar Chauhan published a paper topic “**Fuel-Efficiency Improvement By Component-Size Optimization In Hybrid Electric Vehicles**” on World Electric Vehicle Journal , 2023, 14(1), 24, ISSN:2032-6653 dated on 15 Jan 2023.
- Mr. Anand Goswami published a paper topic “**Biomass Gasification Of Agro – Waste: - A Potential Assessment For Seoni, Region**” On Accent Journal Of Economics Ecology & Engineering , Vol. 08, Issue 01, January 2023 , ISSN No. 2456-1037 Dated On Jan 2023
- Mrs. Rashi Goswami published a paper topic “**Study & Analysis Of Power Quality Improvement Of DC Drive Using Internet Of Things**” on International Journal Of Novel Research In Engineering And Science, Vol 9 Issue 3 dated on March 2023.

### PLACEMENTS :

- From 1<sup>st</sup> October to 30 December 2022, following Students was selected the various company.



S. No.	Name of the student placed	Enrollment no.	Name of the Employer	Appointment letter reference no. with date
1	DEEPALI MISHRA	0206EX191014	TCS	Mail, Dec. 29, 2022
2	KAPIL GIRI	0206EX191019	TCS	Mail, Dec. 29, 2022
3	RAKSHA PATLE	0206EX191032	TCS	Mail, Dec. 29, 2022
4	SHUBHASH DAHERIYA	0206EX191046	TCS	Mail, Dec. 29, 2022



### Faculty :-

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

### Students :-

1. Khushboo Agrawal
2. Shivahans Singh
3. Zoukia Akhtar
4. Tanish Chourasiya

## EDITORIAL TEAM