



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

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

“Ele-Xpress”

Volume 4, Issue 2
December 2021



*Department of
Electrical & Electronics Engineering*

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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.



**Department of
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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 2nd, 3rd and 4th year students during 1st April to 30th June 2023.



EVENTS ORGANIZED BY THE DEPARTMENT

Expert Talk:

- Guest Lecture on "Importance of Co-generation and coordination of power plant, their merits and demerits" delivered by Mr. Mayank Mishra Managing Director, RM Solar Green Energy, Rewa dated on 29/10/2021.balpur dated on 10/04/2023.

Other Activity

- Students of all Semester of Department of Electrical & Electronics engineering organized "PAHEL 2k21" for all the class fourth employee of the institute.



- "Nadi ko Jano" A campaign for Crowd Sourcing of Data about Rivers



ACHIVEMENTS

PAPER PUBLICATION :

- Dr Ruchi Pandey published a paper "Analytical Approach On Energy Management System And Utilization In Madhya Pradesh For Paper Industry: A Review", On Accent Journal Of Economics Ecology & Engineering , Vol. 06, Issue 10, October 2021 , (ISSN NO. 2456-1037) , dated on October 2021
- Dr Ruchi Pandey published a paper "An Analytical Approach On Solar Radiation Concept For Energy Arrivals Resources For Power Quality Improvement: A Review" On Accent Journal Of Economics Ecology & Engineering , [Vol. 14 No. 1 \(2021\)](#) , dated on 2021.
- Dr Ruchi Pandey published a paper "Energy Efficiency Opportunities By Monitoring And Using Converter In Household Electricity: A Review" on Accent Journal Of Economics Ecology & Engineering [Vol. 17 No. 1 \(2021\)](#) ISSN No. 2456-1037 dated on 2021.

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ACHIEVEMENTS

- Dr Ruchi Pandey published a paper “**Energy Efficiency Opportunities By Monitoring And Using Converter In Household Electricity: A Review**” on Accent Journal Of Economics Ecology & Engineering [Vol. 14 No. 1 \(2021\)](#) ISSN NO. 2456-1037 dated on 2021.
- Dr. Pawan Kumar Pandey published a paper “**Integrated Grid-Connected Hybrid Power Generating System With Optimized PLL-Based Power Control**” on Walailak Journal Of Science And Technology (WJST), 18/16 , 2228-835X, dated on 2021.
- Dr. Pawan Kumar Pandey published a paper “**Hybrid Controller And DSTATCOM With Hybrid Technique Optimized And Integrated The Hybrid Power Generating System**” on Turkish Online Journal Of Qualitative Inquiry (TOJQI) 12-07, 1309-6591 dated on 2021.
- Mr. Anand Goswami published a paper “**Performance Analysis Of 3kw Residential Grid - Connected Photovoltaic System With Micro Inverter Topology Using System Advisor Model**” on International Journal For Research In Applied Science & Engineering Technology (IJRASET) , Volume 9 Issue IX , dated on 2021.

BOOKS / BOOK CHAPTERS PUBLICATIONS:

- Dr Ruchi Pandey Published a Book Chapter in book titled Emerging Trends and Innovation in Commerce and Management (Book Chapter) by RFI International Book Publications, ISBN No.:- 978-93-91903-48-0, Year: 2021, Book Chapter No. - 08, pp. 51-55, Title: Recent Innovation for Autonomous Building Energy Management

AWARD:

- Students of Department of Electrical & Electronics got 3rd rank in state level project competition SRIJAN organized in Bhopal on the topic “Animal Detection System Using Laser”.

1.Aanchal Kesarwani 2.Nidhi Singh Chouhan 3.Rajneesh Choudhary 4.Shalini Choubey 5.Shivnesh Goundar

PLACEMENTS:

- From 1st October to 30 December 2021, 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	AAYUSH SHARMA	0206EX181002	Cognizant GenC	Offer and Mail, Oct. 1, 2021
2	OJASVA CHOUBEY	0206EX181029	Cognizant GenC	Offer and Mail, Oct. 1, 2021
3	SHIVNESH GOUNDAR	0206EX181044	Cognizant GenC	Offer and Mail, Oct. 1, 2021
4	SHREYANSH MISHRA	0206EX181045	Cognizant GenC	Offer and Mail, Oct. 1, 2021
5	VANSHIKA BILTHARIYA	0206EX181052	Cognizant GenC	Offer and Mail, Oct. 1, 2021
6	VANSHIKA CHOUDHA	0206EX181053	Cognizant GenC	Offer and Mail, Oct. 1, 2021
7	SOMYA JHA	0206EX181048	Jaro Education	Mail and Offer, Nov. 11, 2021
8	KHIRABDHI TANAYA PATI	0206EX181022	Ericsson	Mail, Dec. 9, 2021
9	HRITIK JAIN	0206EX181019	Cerium Systems (P) Ltd.	Email and Offer, Dec. 23, 2021
10	NIKITA DEVGIRKAR	0206EX181027	Cerium Systems (P) Ltd.	Email and Offer, Dec. 23, 2021
11	SHUBH SAHU	0206EX181046	Cerium Systems (P) Ltd.	Email and Offer, Dec. 23, 2021



EDITORIAL TEAM

Faculty :-

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

Students :-

1. Shalini Choubey
2. Khushboo Agrawal
3. Shivahans Singh
4. Zoukia Akhtar