

Electronica



Newsletter

July 2023 to December 2023



Deogiri Institute of
Engineering &
Management Studies



Department of Electronics and
Telecommunications Engineering

Electronica Newsletter

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Telecommunication Engineering



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DEPARTMENT VISION AND MISSION

Vision

To provide valuable resources for Industry and Society through research and excellence in Electronics and Telecommunication Engineering

Mission

1. Educating students with requisite technical expertise to meet the growing challenges of the Industry.
2. Promoting research through constant interaction with research bodies and various Industries.
3. Equipping students with fundamental subject knowledge to enable them for continuing Education.

Program Educational Objectives (PEOs)

- Graduates would be able to provides the Engineering solution with strong research capabilities in the areas of Electronics and Telecommunication Engineering.
- Graduates would be able to achieve good carrier using improved skill sets.
- Graduates would be able to provide a solid foundation and advanced programming skill in the field of Electronics.

Program Specific Outcomes (PSOs)

1. Apply knowledge to use modern tools and techniques for Electronics and Telecommunication Engineering
2. Identify Design, and Test Analog, Digital Communication Systems and Signal Processing using software and hardware tools.
3. Design and Develop computing systems while using best practices for software and hardware implementations.
4. Create social and professional skills awareness for lifelong learning.

List of Program Outcome

1. Engineering knowledge	2. Problem analysis	3. Design/development of solutions	4. Conduct investigations of complex problems
5. Modern tool usage	6. The engineer and society	7. Environment and sustainability	8. Ethics
9. Individual and team work	10. Communication	11. Project management and finance	12. Life-long learning

Student Activities

Research Paper Publications

Title of paper	Name of the author/s	Name of journal	ISBN/ISSN number
Analysis of Bio-Medical Waste Management	Chinmaya Nayak, Vaibhav Kayande, Vaishnavi Santre, Krishna Madrewar	Journal of Emerging Technologies and innovative research	ISSN:2349-5162
Comparative Analysis of pyrometallurgy, Hydrometallurgy and Bio-Hydro Metallurgy for Extraction of metals from E-waste	Bhakti B.Sonule, Apeksha N. Kulkarni, Nikita K. Kakade, Krishna T. Madrewar	International Journal of Research Publication and Reviews	ISSN 2582-7421
Exploring Electronic waste recycling methodologies in India: A big Challenge	Akanksha sunil Bari, Prof. K.T. Madrewar	International Journal of Research Publication and Reviews	ISSN 2582-7421
Current status and Research on Global Perspectives on E-waste Recycling	Aditi Mulkekar, Vaishali khandekar, Sanjana Mahajan, Prof. K.T. Madrewar	International Journal of Research Publication and Reviews	ISSN 2582-7421
Global Perspective of Disposal Recycling of E waste Impact on Environment	Anushka R.jain, Punam N. Garud, vidhi R. Agrawal, Krishna T. Madrewar	International Journal of Research Publication and Reviews	ISSN 2582-7421

IETE Activities

The Inauguration of the IETE Student Forum at Deogiri Institute of Engineering and Management Studies was a momentous occasion marked by a spirit of enthusiasm and technological excellence. Akanksha Bari, representing the Electronics and Telecommunication Department, warmly welcomed the esteemed guests, including Chief Guest Hon. Sushil Samvatsar, Guest of Honor Dr. R. R. Deshmukh, and IETE Chairman Dr. U. B. Shinde. The event showcased a commitment to advancing the fields of Electronics, Telecommunication, and IT, with a vision of empowering members to lead in technology. Dignitaries were felicitated, and a unique tradition of planting a tree to honor the motherland was observed. The core management team and Student Forum heads were introduced and acknowledged, adding a personal touch to the celebration. Dean Academics Dr. S V Lahane addressed the audience, highlighting his impressive background in Mechanical Engineering. The newsletter captures the essence of the event, emphasizing the collaborative spirit and commitment to technological innovation that defines the IETE Student Forum at DIEMS.



Faculty Activities

Faculty Development Programme (FDP) and Short term Training Programme (SDP) (AY : 2023-24)

Title of paper	Name of the author/s	Name of FDP	Year
Emerging Technologies in 5G Communication and Beyond	Miss S. K. Kapde	AICTE Training and learning (ATAL) Academy	4/12/23 to 9/12/23
Emerging Technologies in 5G Communication and Beyond	Mr.G.S.Lipane	AICTE Training and learning (ATAL) Academy	4/12/23 to 9/12/23
Connecting Science to Society and Culture	Ms. Kiran S. Mantri	National Institute of technical teachers' Training and research , Bhopal	9/10/23 to 13/10/23
Connecting Science to Society and Culture	Ms. Dipali Ghule	National Institute of technical teachers' Training and research , Bhopal	9/10/23 to 13/10/23

Award for Faculty Activities

Name of the award person	Title of Award	Year
Dr.Anita V.Nikalje	Prox R&D Award -23,Record Owner	10/08/2023
Prof. Kanchan J. Kakade	International Symposium on AUTOMATION IN AGRICULTURE IN ASIA	2-3 /10/ 2023
Prof. Kanchan J. Kakade	Prox R&D Award -23,Record Owner	2/10/2023

Electronica Tech News

MOSFET: New Devices Lower Losses and Boost Power Density

Metal-oxide-semiconductor field-effect transistors (MOSFETs) have been at the heart of digital and power electronics for decades, and they continually face challenges as technology advances. One of the most pressing issues for MOSFETs is that they must operate at high-voltage levels while remaining reliable. Manufacturers must carefully choose insulating materials and techniques that ensure safe operation at elevated voltage levels.



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Editorial Team

Chief Editor : Prof. Ashish S. Bhaisare

Co Editor : Prof. Kanchan J. Kakade

Students Co-ordinator

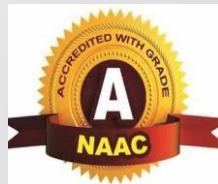
Shubham Pitekar , Sakshi Shelke (S.Y E&TC)

Parul Damahe , Suryakant K. Kulkarni (T.Y. E&TC)

Bhakti B.Sonule, Apeksha N. Kulkarni (B.Tech E&TC)

Marathwada Shikshan Prasarak Mandal's

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