

Department of Electrical and Electronics Engineering ABV-IIITM, Gwalior

(An Institute of National Importance Under MoE, Government of India)



TIIC Sponsored Two Days Hybrid Workshop on "Next Generation Communication and Microelectronics Technologies for Biomedical Applications"

Rapid evolution of communication and microelectronic technologies drives transformative advancements in biomedical applications, offering unprecedented opportunities to enhance healthcare delivery, diagnostics, and patient care. Integration of next-generation communication technologies involves leveraging high-speed, secure, and low-latency networks, that facilitate real-time data transmission. Workshop aims to explore current trends and prospects of next-generation communication and microelectronic technologies in biomedical applications. The workshop will constitute a series of technical sessions and hands-on sessions on various machine-learning techniques for biomedical applications. By the end of the workshop, the synergy between academia and industry would stimulate innovative ideas, foster collaborations, and contribute towards the progression of next-generation technologies in biomedical healthcare.

Registration Fee: 1000 INR

NIL for first 25 candidates*

Date: 06-07th April 2024

Venue: ABV-IIITM Gwalior

Mode: Hybrid (online and offline)

*Special Note:

- First 25 candidates (**offline mode only**) are exempt from registration fee.
- Free Lunch, Tea and Kits to all the participants.
- Accommodation (on payment basis), if required.

Registration Link: <https://rb.gy/qgbbcm>

Tentative Speakers

- Prof. Sri Niwas Singh, Director, ABV-IIITM, Gwalior.
- Prof. Sampat Raj Vadera, Deputy Director, IIT Jodhpur.
- Prof. Manisha Pattanaik, Head DoEEE, ABV-IIITM Gwalior.
- Mr. Hemant Shukla, Scientist F and Project Director, CFEES, DRDO.
- Dr. Varun Bajaj, Associate Professor, DoECE, MANIT Bhopal and others.

Total Six-Eight sessions

Registration Deadline: 31st March 2024



Scan to Register

Contact Us

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Who can Join

Researchers, UG/PG Students, and Professionals from Industry and Academia

Chief Patron: Prof. S. N. Singh, Director, ABV-IIITM Gwalior

Coordinators: Prof. Manisha Pattanaik, Dr. Gaurav Sharma, Dr. Biswabandhu Jana, and Dr. Irshad Ahmad Ansari

ABOUT THE INSTITUTE:

Atal Bihari Vajpayee - Indian Institute of Information Technology & Management Gwalior (ABV-IIITM Gwalior) is India's premier Institute incepted by the Ministry of Human Resource and Development (MHRD), Government of India in the year 1997 as a centre of excellence in the field of Information Technology and Management. It is the foremost Institute providing superior quality higher education in the above areas and is located in the city of Gwalior in the northern part of the state of Madhya Pradesh, India. The Institute's activities are aimed at developing a culture of inquiry and research through a highly competitive academic environment, and close interaction between the institute and corporate world. Vibrant links with the industry are active. Institute is ISO 9001:2008 and NAAC 'A' certified. It has also been declared an Institute of National Importance by the Government of India. Institute has secured 81th Rank in the NIRF survey 2019 among all Engineering Institutes nationwide. Institute secured 164th rank in the World and 1st rank in India in 2017 UI Green Metric World University Rankings evaluated by Universitas Indonesia in 2017.

ABOUT DEPARTMENT:

Electrical and Electronics Engineering department was established in the year 2022. Previously, it was under the Information Technology Department established in the year 1997. Since its inception, it has consistently created its place of excellence not only within the institute but among its counter parts in the country and abroad. Bright students from all parts of the country for quality education in IT & EC at undergraduate, postgraduate, and doctoral levels are attracted. The department has highly qualified and competent faculty members along with adequate facilities to support holistic learning.

COURSE OUTCOME:

- Participants will understand the advancements in next-generation communication and microelectronic technologies, and find their potential applications in the biomedical healthcare system.
- Exploring and identifying critical challenges associated with R&D of next-generation technologies in biomedical applications.
- Instilling practical skills related to the design, development, and implementation of biomedical devices to participants through hands-on sessions. This is in accordance with the current national missions, i.e., **chips to startup (C2S)** and **5G use cases**.
- Facilitate collaboration among participants from academia and industry, subsequently fostering interdisciplinary research partnerships.
- Presenting real-world case studies showcasing successful implementations across diverse sectors of healthcare systems.

HOW TO REACH:

ABV-IIITM Gwalior is located on Morena Link Road at a distance of about 3.5 km and 8.5 km from Gwalior railway station and Rajmata Vijay Raje Scindia city airport, respectively. The institute is easily accessible by road, and there are cabs and auto-rickshaws to commute from railway station or airport.