

One Week Short Term Course

on

Emerging Technologies in Computing and Communication (Online)

21st July - 25th July 2025

(Self-Sponsored)

Organized by:



**Department of Computer Science and
Engineering**

**Dr B R Ambedkar National Institute of
Technology Jalandhar**

**Grand Trunk Road, Amritsar Bypass,
Jalandhar, Punjab 144008**

Venue: Microsoft Teams Link

ABOUT NIT Jalandhar

Dr B R Ambedkar National Institute of Technology was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology (Deemed University) by the Government of India on October 17, 2002 under the aegis of Ministry of Human Resource Development, New Delhi. Now the Ministry of Human Resource Development, Government of India has declared the Institute as “Institute of National Importance” under the act of Parliament-2007. A large number of reputed Industrial houses in the country visit the Institution and select the final year students as Engineers/ Management Trainees. As one of the National Institutes of Technology (NIT), the Institute has the responsibility of providing high quality education in Engineering, Technology and Sciences to produce competent technical and scientific manpower for the country. The Institute offers BTech, MTech, MSc, MBA and PhD programs in the several disciplines of Engineering, Technology and Sciences.

For more info: <http://www.nitj.ac.in>

ABOUT THE SHORT TERM COURSE

In today's fast-paced digital landscape, staying updated with the latest advancements in computing and communication technologies is crucial. This intensive One-week short term course has been meticulously designed to empower you with the knowledge and skills needed to navigate the ever-evolving world of technology. The short term course is being organized for faculty and students of engineering and technological institutions. It is also

open to persons from the industry and doctoral/M.Tech/B.Tech students. The objective of short-term course is to provide an exposure in “Emerging Technologies in Computing and Communication” through interaction with experts in different domains of research in emerging technologies in computer science and engineering domain. The technical program will include state-of-the-art lectures, discussion/presentation sessions, specifically focused on the insights, research challenges and hands-on sessions in the area of Emerging technologies in computing and communication refer to novel advancements, methods, and innovations that stand on the verge of widespread adoption, or which have the potential to bring transformative changes to the way we interact, work, and live. These technologies often push the boundaries of the current capabilities, creating possibilities that were not feasible or imaginable just a few years prior.

COURSE OBJECTIVES

- Understand the fundamentals and applications of key emerging technologies.
- Develop the ability to evaluate and implement these technologies in real-world scenarios.
- Stay updated with the latest trends and innovations in the tech industry.
- Build a strong foundation for future career growth and opportunities.

SHORT TERM COURSE CONTENT

Expert lectures and extensive hands-on sessions cover following topics:

- Advanced Wireless Technologies (5G, 6G)
- Drone Technology
- Video Surveillance
- Blockchain Technology
- Advanced Robotics
- Cyber-Physical Systems
- Time Series Analysis
- Automated Machine Learning (AutoML)
- Quantum Computing
- Edge Computing
- Augmented Reality
- Natural Language Processing

CHIEF PATRON

Prof. (Dr.) Binod Kumar Kanaujia
Director, Dr B R Ambedkar NIT Jalandhar

CO-PATRON

Prof. (Dr.) A L Sangal
HoD CSE Department

CONVENER

Dr. Avtar Singh, Dr. Prashant Kumar
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ORGANISING COMMITTEE

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Dr. Banalaxmi Brahma
Dr. Somesula Manoj Kumar
Dr. Shefali Arora Chouhan
Dr. Naina Yadav
Dr. Sumit Kumar
Dr. Madhurima Buragohain

IMPORTANT DATES

Date of Registration (Open)	1st June 2025
Date of Registration (Close)	14th July 2025
Duration	21st July- 25th July 2025 (05 days)

RESOURCE PERSONS

Eminent academicians affiliated to IITs, IIITs, NITs, other renowned institutes and Industry experts will deliver the sessions with practical demonstrations.

TARGET AUDIENCE

The Registration is open for faculty, industry personnel, doctoral, postgraduate and graduate students related to

Computer Science & Engineering. Participants will be admitted on a first-come-first-served basis.

GENERAL INFORMATION

➤ Limited number of seats

HOW TO APPLY

Registration can be done using institute portal link (Link will be available on 01-June-2025 (Tentatively))

Expected Audience: Industry Personnel, Faculty, Research Scholars, and M.Tech/ B.Tech Students.

Registration fees:

Faculty, Research Scholars, PG Students	Rs. 300 + 18% GST
Industry Participant	Rs. 400 + 18% GST
NITJ Faculty/Research Scholar and Students	Rs. 200/-

Certificate of participation will be provided online.

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