

# GURU NANAK INSTITUTE OF TECHNOLOGY

## INSTITUTIONAL DISTINCTIVENESS

The vision of Guru Nanak Institute of Technology is to be a world-class educational and research institution in the service of humanity by promoting high-quality engineering and management education.

In-line with the vision, mission and thrust, the institution provides consistent support and state of the art educational infrastructure and innovation eco system to enrich both academic and research practices.

Keeping in view to promote research activities, the institution has established several advanced centers to foster research and development activities in the institution.

In order to carry out cutting edge research in various contemporary technologies, the following are the Advanced Research Centres established in the institution.

- Advanced Centre For Innovation, Incubation, Research And Development(CIIRD) which aims to inculcate a spirit of innovation, provide support for startups ideas and foster entrepreneurial skills among the students.
- Advanced Centre for Innovations in Drone Technologies(CIDT) aims to create innovative projects using drone technologies
- e-Yantra – Embedded systems and Robotics Lab which aims to create the next generation of embedded systems engineers with a practical outlook to provide practical solutions to real world problems.
- Centre of Innovations in Robotics and Industrial Applications to culminate multidisciplinary ideas to promote innovative developments in Robotics.
- Advanced centre for Artificial Intelligence and Machine learning to promote the research works on the creation and deployment of machine learning models with artificial intelligence technologies.
- Advanced Centre for Solar Applications to instill innovative project developments on improving and optimizing the design of solar power systems.
- Advanced centre for Augment Reality/Virtual Reality to foster training and development in AR/VR technologies
- Centre for Geomatics to boost research, knowledge transfer and dissemination activities in geomatics field.
- Centre for Computational Civil Engineering to train the students on STAAD about construction practices, Mix design, RR masonry and CR masonry.

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Brickwall, RCC tests, 2D/3D frame modeling, analysis and design of circular domes, 3D frames, etc.,

- Centre for Nondestructive Testing to train the students in the field of Testing the Properties of Materials and evaluating the structural integrity of materials.
- Centre for 3D Printing to strengthen project development activities in the field of 3D applications, such as medical, automobiles, etc.,
- Centre for Big Data to provide knowledge and skills to shape the emerging field of data science using latest softwares and tools.
- Centre for Mobile Application Development(MAD) to provide an opportunity to develop projects using various MAD frameworks.
- Centre for Software Development to carry out advanced research and project developments on latest software technologies
- Centre for VLSI to design, formulate and realize the intelligent electronics circuit systems, FPGA based VLSI Design and embedded systems for industrial applications
- Centre for Embedded systems to provide practical skills to students and train them on microcontroller and microprocessor based projects.
- Coding Centre to enhance the coding skills of students on different programming Languages

These advanced centers and Centre of Excellence lead to the development of multi-disciplinary projects and win - win solutions to cater funds for research projects.

  
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