# MAHATMA GANDHI
## INSTITUTE OF TECHNOLOGY (A)
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On

## THE ROLE OF LINEAR ALGEBRA IN MACHINE LEARNING, ARTIFICIAL INTELLIGENCE & DATA SCIENCE

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## ABOUT THE INSTITUTE

Mahatma Gandhi Institute of Technology is one of the premier Engineering Colleges in the self-financing category in the state of Telangana. MGIT is affiliated to Jawaharlal Nehru Technological University, Hyderabad. The institute has received accreditation for six UG programs, three times from National Board of Accreditation, New Delhi. The Institute is also accredited by NAAC with 'A' grade. Starting from academic year 2021-2022 MGIT is conferred with *Autonomous status* for 10 years by UGC, New Delhi. The institute offers instruction in eleven Undergraduate Programs: Computer Science & Engineering, Information Technology, Electrical & Electronics Engineering, Electronics & Communication Engineering, Mechatronics, Civil Engineering, Mechanical Engineering and Metallurgical & Materials Engineering and also in emerging technological areas like Computer Science and Business System, Computer Science and Engineering (Artificial Intelligence and Machine Learning) and Computer Science and Engineering (Data Science) and seven PG programs. The institute has received MHRD's NIRF-2021 Ranking in the rank band:251-300.

## ABOUT THE FDP

The FDP aims at familiarizing young engineers and teaching faculty from Institutions of Engineering and Technology in the upcoming fields of Machine Learning, Artificial Intelligence and Data Science and the role of Linear Algebra in their study.

❖ Linear Algebra is a branch of Mathematics, which is the mainstay of almost all the areas of Mathematics.
❖ Linear Algebra is the foundation of Machine Learning- from the notations used in describing the algorithm to the implementation of the algorithm itself.
❖ Artificial Intelligence is not magic, it's just mathematics. It depends on Innovative, Futuristic and Revolutionary mind, well versed in Linear Algebra.  Linear Algebra incorporates the inputs on learning issues.

❖ A Dataset is frequently and conveniently represented as a matrix. Linear Algebra is used in Data Science to preprocess the data, transformation of the data and its evaluation. Thus, Linear Algebra becomes the fulcrum in the study of Data Science

## RESOURCE PERSONS

**Dr. R.S. Hegadi, Dean - School of Computer Sciences, Central University of Karnataka**
**Dr. Debasis Sengupta, Dean of Studies, Indian Statistical Institute**
**Dr. Bapi Raju,Professor, IIIT, Hyderabad**
**Dr. Montaz Ali, University of Witwatersrand, Johannesburg**
**Dr. V.V.Haragopal, BITS, Hyderabad**
**Dr. Xin-She Yang, Middlesex University, UK**
**Dr. Seetha Hari , VIT-AP University**
**Dr. Suresh Kumar, Manav Rachna International University, Faridabad, Haryana**
**Dr. Srinath Kannan, IIIT, Hyderabad**
**Dr.Hanumanthappa.M Professor & Chairman, Department of Computer Science & Applications, Bangalore University**

## ADVISORS

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**Mr. J. Pratap Reddy, Secretary & Correspondent, MGIT**
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