

## *RG-01: Computing and Emerging Technologies*

Research Director: Dr. Manpreet Kaur



### Brief profile:

Dr. Manpreet Kaur is presently working as Professor & Head in CST Department, at Manav Rachna University, Faridabad. She has over 16 years of experience including academics & research. She has worked as full time Teaching & Research Fellow for four years at Netaji Subhas Institute of Technology (NSUT now).

She was awarded Ph.D in Computer Engineering for her dissertation work in the area of “Text Summarization ” from Netaji Subhas Institute of Technology 2021. She completed her M. Tech (Computer Science & Engineering) from Punjabi University, Punjab.

She has published several research papers in International level journals (SCI/WoS /Scopus indexed) and presented papers in National & International Conferences. She has three edited books to her credit published with IJIRR, IGI Global, USA and CRC Press.

She is a Senior Member of IEEE, IEEE Computer Society and Women In Engineering.

She has also served as the Chairperson, IEEE Women In Engineering Affinity Group Delhi Section in 2019-20, Joint Secretary, IEEE Delhi Section (2021-22).

She is currently serving as reviewer with many reputed international journals like IJSI and conferences. She has also contributed as Session chairs and Guest Speakers in reputed conferences like IEEE INDICON, DELCON and workshops.

Her research interests lie in the areas of natural language processing, information retrieval, text analytics and machine learning. Currently, She is guiding 6 Ph.D. scholars.

### Vision

To establish a conducive research environment for students and faculty that provides a robust platform to exchange and implement unique, creating ideas for socio economic growth using engineering and technology.

### Mission

- To foster a culture of self-reliance and innovation among the students by transforming creative concepts into technological solutions, startups for creating students as innovators and entrepreneurs.
- To share knowledge and expertise through educational initiatives, workshops, and community outreach by imparting the next generation of researchers the necessary skills and abilities they need to navigate and make contribution to the ever-evolving landscape of computational trends.
- To promote partnership between industry, universities, and researchers, to collaborate on cutting edge technologies such as artificial intelligence, machine learning, cloud computing etc. with emphasis on sustainable development
- To ensure responsible and ethical technology development and its adoption for societal needs.

Thrust Areas

- Artificial Intelligence & Machine Learning
- Computer Vision & Image Processing
- Natural Language Processing
- Cyber Security & Block Chain

Ongoing Projects

1	Dr. Mrinal Pandey (PI) Dr. Mamta Arora (Co-PI)  Dr. Riya Sapra (Co-PI) Mr. Sohaib Siddiqui (Co-PI)	CST-MRU CST-MRU The North Cap University	Medical Insurance Claim Settlement using Blockchain Technology	IIT Bhilai Innovation and technology Foundation (IBITF)	31.96 Lakhs	2022-23
	Dr. Parneeta Dhaliwal	CST-MRU	Bags Segregator Using Robotic Arm	Internal Funding	32400 (Sanctioned Amount)	2023-2024

Events/Activities:-

- i. Publications of good quality research work of Researchers in International Journals of repute viz. SCI/SCOPUS/WoS
- ii. Undertaking Projects by the faculty members and students for obtaining the Research Grants by Central Funding Agency like DST, ISRO, and DRDO.
- iii. Organizing the major Conferences, Workshops and Faculty Development to enhance the faculty members on recent advanced technology.