

**Nirma University
Institute of Technology
Department of Computer Science and Engineering**

Faculty Mapping with Bank of Thrust Areas of the Research

**First name highlighted indicates the name of the coordinators.
(Updated on: 30/12/2024)**

Identified Thrust Areas	Subareas	Faculty Name
Data Science and Artificial Intelligence (Dr. Priyank B Thakkar)	Machine Learning	Dr. Swati Jain , Ms. Shivani Desai, Dr. Smita Agrawal, Ms. Sonia Mittal, Dr. Priyank B Thakkar, Ms. Binjal Soni
	Deep Learning	Dr. Priyank B Thakkar , Dr. Deepika Shukla, Dr. Rupal A Kapdi, Dr. Swati Jain, Mr. Jay Padhiyar, Dr Neelesh Kumar Patel
	Natural Language Processing	Dr. Tarjni Vyas , Dr. Lata Gohil, Dr. Tejal Upadhyay, Mr. Rameshram Naik, Ms. Bhavya Upadhyay, Dr. Usha Patel
	Information Retrieval	Dr. Sapan Mankad , Dr. Jitali Patel, Dr. Priti Kathiria, Dr. Lata Gohil,
	Big Data, Analytics and Mining	Dr. Jaiprakash Verma , Dr. Purnima Gandhi, Dr. Aparna Kumari, Dr. Jigna A Patel, Ms. Priya Bhagwakar
	Recommendation Systems	Dr. Ankit Thakkar , Ms. Rachana Mehta, Dr. Tarjni Vyas, Mr. Ajay M Patel, Ms. Sonam Singh
Cyber Physical Systems (Dr. Gaurang Raval)	Blockchain Technology	Dr. Sudeep Tanwar , Dr. Rajesh Gupta, Mr. Umesh Bodkhe, Ms. Anuja Nair, Mr. Ashwin Verma, Ms. Jigna Hathaliya
	Cryptography and Network Security	Dr. Sharada Valiveti , Mr. Chandan Trivedi, Dr. Pimal Khanpara, Dr. Rajesh Gupta, Dr. Sunil Gautam, Ms. Deepti Sarawat, Ms. Priyanshi Thakkar
	Cybernetics	Dr. Madhuri Bhavsar , Mr. Ashwin Verma, Dr. Sunil Gautam, Ms. Deepti Sarawat, Dr. Aparna Kumari, Dr. Pooja Chaturvedi, Mr. Kanu Patel
	Human-Computer Interaction	Dr. Saurin Parikh , Dr. Rebakah Geddham, Mr. Daiwat Vyas, Dr. Vrajesh K Chawra

	Robotics	Dr. Niranjan Devashrayee , Dr. Swati Jain, Dr. Vijay Ukani, Dr. Rebakah Geddam
	Quantum Computing	Dr. Madhuri Bhavsar , Dr. Sudeep Tanwar, Dr. Sharada Valiveti, Dr. Jaiprakash Verma, Ms. Priya Bhagwakar
	Internet technologies and sensor networks including ad hoc networks, delay tolerant networks, content-centric networks, software-defined networks,	Dr. Gaurang Raval , Dr. Zunnun Narmawala, Dr. Jitendra Bhatia, Dr. Pooja Chaturvedi, Mr. Malaram K Kumhar, Dr. Rajan Datt, Dr. Devendra Vashi, Prof. Madhukant Patel, Dr. Kruti Lavingia, Mr. Daiwat Vyas, Ms. Deepika Bishnoi, Dr Neelesh Kumar Patel
	Internet of Things	Dr. Vijay Ukani , Dr. Gaurang Raval, Dr. Mohd Zuhair, Mr. Ajay M Patel, Dr. Kruti Lavingia
Multimedia Processing and Analytics (Dr. Saurin Parikh)	AR/VR/MR/XR	Dr. Saurin Parikh , Mr. Daiwat Vyas, Dr. Rebakah Geddam
	Computer Vision	Dr. Deepika Shukla , Dr. Vishal U Parikh, Dr. Parita Oza, Shivani Pandya, Mr. Mohit Parmar, Mr. Nirav Patel, Ms. Sonia Mittal, Somenath Bera
	Image Processing	Dr. Rupal A Kapdi , Dr. Usha Patel, Dr. Deepika Shukla, Somenath Bera
Advanced Computing (Dr. Vipul Chudasama)	Green, Cloud and Multi-core Computing	Dr. Vipul Chudasama , Dr. Madhuri Bhavsar, Dr. Vivek K Prasad, Ms. Monika Shah, Dr. Saurin Parikh, Dr. Jitendra Bhatia, Dr. Sanjay Patel, Mr. Nitin Rathore, Ms. Bela Shrimali, Dr. Rebakah Geddam, Dr. Raksha Pandey, Dr. Sumedha Arora, Ms. Shivani Desai, Ms. Ritiksha Modi
Software and System Engineering (Dr. Tejal Upadhyay)	Algorithms, Computer Architecture, Database Systems, Software Engineering, Operating System	Dr. Tejal Upadhyay , Dr. Devendra Vashi, Dr. Parita Oza, Dr. Pimal Khanpara, Dr. Sanjay Patel, Dr. Usha Patel, Ms. Monika Shah, Dr. Leena Patel, Mr. Ajay M Patel, Dr. Ankit Thakkar, Dr. Vishal U Parikh, Dr. Mohd Zuhair, Dr. Bela Srimali