

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

**Faculty Mapping with Bank of Thrust Areas of the Research**

**First name highlighted in RED, indicates the name of the coordinators.  
(Updated on: 05/12/2024)**

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

	Robotics	<b>Dr. Niranjan Devashrayee</b> , Dr. Swati Jain, Dr. Vijay Ukani, Dr. Rebakah Geddam
	Quantum Computing	<b>Dr. Madhuri Bhavsar</b> , 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,	<b>Dr. Gaurang Raval</b> , 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,
	Internet of Things	<b>Dr. Vijay Ukani</b> , Dr. Gaurang Raval, Dr. Mohd Zuhair, Mr. Ajay M Patel, Dr. Kruti Lavingia
Multimedia Processing and Analytics ( <b>Dr. Saurin Parikh</b> )	AR/VR/MR/XR	<b>Dr. Saurin Parikh</b> , Mr. Daiwat Vyas, Dr. Rebakah Geddam
	Computer Vision	<b>Dr. Deepika Shukla</b> , Dr. Vishal U Parikh, Dr. Parita Oza, CFSP, Mr. Mohit Parmar, Mr. Nirav Patel, Ms. Sonia Mittal
	Image Processing	<b>Dr. Rupal A Kapdi</b> , Dr. Usha Patel, Dr. Deepika Shukla,
Advanced Computing ( <b>Dr. Vipul Chudasama</b> )	Green, Cloud and Multi-core Computing	<b>Dr. Vipul Chudasama</b> , 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, Ms. Raksha Pandey, Ms. Sumedha Arora, Ms. Shivani Desai, Ms. Ritiksha Modi
Software and System Engineering ( <b>Dr. Tejal Upadhyay</b> )	Algorithms, Computer Architecture, Database Systems, Software Engineering, Operating System	<b>Dr. Tejal Upadhyay</b> , Dr. Devendra Vashi, Dr. Parita Oza, Dr. Pimal Khanpara, Dr. Sanjay Patel, Dr. Usha Patel, Ms. Monika Shah, Ms. Leena Patel, Mr. Ajay M Patel, Dr. Ankit Thakkar, Dr. Vishal U Parikh, Dr. Mohd Zuhair