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Design Innovation Center (DIC)
Indian Institute of Technology Roorkee

(A center under the scheme "National Initiative for Design Innovation" of MHRD, Government of India, New Delhi.)

List of Faculty Mentors for DIC Summer Internship Scheme 2019

S.No	Name of the Mentor	Department	Area of Expertise/Preferable Topic
1	Dr. Vimal Chandra Srivastava Associate Professor	Dept. of Chemical Engg.	Chemical or Environmental Engineering
2	Dr. Yogesh Vijay Hote Associate Professor	Electrical Engineering Department	Tuning of PID controller
3	Dr. Sudip Roy Assistant Professor	Department of Computer Science & Engineering and Center of Excellence in Disaster Mitigation and Management (CoEDMM)	Algorithm Design and Computer Architecture, Algorithms for Chip Design, Microfluidic Biochips, Electronic Design Automation (EDA) and CAD for VLSI, High-Level Synthesis and Physical Design, Cyber-Physical System Design, IoT-based Systems, Smart Systems and Automation, Embedded Intelligence and Design Automation for Microfluidic System for Lab-on-a-Chip applications
4	Dr. Mayank Goswami Assistant Professor	Department of Physics	1.Experimental Nuclear Physics/Engineering, Radiation Detection, its Measurement and Applications, Instrumentation & Applied Physics: Non-Invasive / Non Destructive Imaging, X-Ray and Gamma Ray CT Scanners, 3D Non-Invasive and Non-Destructive Imaging / Testing / Evaluation, Cancer Nanotheranostics, Material Testing 2.Additive Manufacturing, CAD Files optimization
5	Dr. Vimal Kumar Associate Professor	Dept. of Chemical Engg.	Rheological behavior of water-in-oil and oil-in-water emulsions stabilized with Ethoxylated emulsifying agents
6	Dr. K.S Suresh Assistant Professor	Department of Metallurgical and Materials Engineering	Microstructure control of as-cast material - without external additions

7	Dr. Partha Pratim Roy Assistant Professor	Department of Computer Science & Engineering	Text detection and recognition in scene image
8	Dr. Akshay Dvivedi Associate Professor	Department of Mechanical & Industrial Engineering	Advanced Manufacturing Processes, Nontraditional Micro-machining Metal Matrix Composites, Primary and Secondary Processing of MMC, Quality Management, QFD for service sector
9	Dr. Nikhil Dhawan Assistant Professor	Department of Metallurgical and Materials Engineering	Mineral Processing, Extractive Metallurgy, Recycling, Microwave & Particulate processing, Electronic waste recycling, CFL, Magnets, Lithium ion battery, Microwave processes and Recycling of electronic waste
10	Dr. Sateesh Kumar Peddoju Associate Professor	Department of Computer Science & Engineering	Implementing Fog Computing for IoT-Cloud Applications
11	Dr. Kaushik Pal Associate Professor,	Department of Mechanical and Industrial Engineering, Joint faculty, Centre of Nanotechnology,	Blending and characterization of PMC's and MMC's, Synthesis and Modification of nanofillers, Friction Stir Processing; Welding of Polymers; Non-conventional machining, Fracture mechanics and fatigue mechanism of PMC's and MMC's, Sensor, energy storage and supercapacitor application of PMC's, Nano tribology of PMC's and MMC's,
12	Dr. Sohom Chakrabarty, Assistant Professor,	Department of Electrical Engineering,	Control Systems, Sliding Mode Control, Networks and Multi-agent Systems, Integrated Systems Solutions, Multicopters and UAVs for various applications, Modelling and Simulation, Biological System Modelling and Analysis
13	Dr. Inderdeep Singh Associate Professor	Department of Mechanical and Industrial Engineering	Composite Materials; conceptualization and development, Manufacturing of Polymer and Metal Matrix Composites, Natural Fiber Based Green Composites
14	Dr. Gaurav Raheja Associate Professor	Department of Architecture and Planning	Universal Design, Visual Communication, Design Pedagogy, Sustainable Design
15	Dr. Sanjeev Kumar Manhas Associate Professor	Department of Electronics and Communications	Nanoscale devices and circuits, Nanowire MOSFET modeling and circuit design, 3D NAND , Performance Enhancement of NAND Memories, MEMs, Cantilever based MEMs and applications, Reliability, MOS device reliability, Nano scale DRAM, Novel Techniques for Improving Refresh and

			Reliability, Sensors, CNT based sensors, Nanofabrication, Nanoscale CMOS process and VLSI technologies
16	Dr. Apurbba Kumar Sharma Associate Professor	Department of Mechanical and Industrial Engineering	Micromachining, Fabrication of Microchannels, Microholes, their characterisation. Advanced Manufacturing Processes, Hybrid Finishing Processes, Microwave Material Processing, In-situ Microwave Casting, Joining of Bulk Metal, Microwave Cladding, Surface Engineering, Cladding, Wear characterization
17	Dr. Indranil Lahiri Associate Professor	Department of Metallurgical and Materials Engineering	Developing material system for tissue engineering/regeneration
18	Dr. Rajat Agrawal Associate Professor	Department of Management Studies	Operations Management, Supply Chain Management, Quality Management, Inventory Management, Manufacturing strategy IPR, Innovation, Business Models, Entrepreneurship , IP Management, Marketing Management, Green Marketing, Cocreation, General Management, Indian Models of Management, Ethics in Management, Spirituality.