

Summer Faculty Research Fellow Programme -2017

Revised List of Faculty Mentors of IIT Delhi

Dated: 19/04/2017

| Sr. Nos. | Name of Faculty (Prof./Dr.) | Department /Centre | Research Area/Web link |
|----------|-----------------------------|--------------------------------|---|
| 1. | Jayant Jain | Applied Mechanics | Micro & nano scale deformation behavior of materials, creep, fatigue, fracture, alloy design, materials characterization, nano scale tribology. Web link: http://web.iitd.ac.in/~jayantj/ |
| 2. | Suddhasatwa Basu | Chemical Engineering | Photo-electro chemical water splitting and CO2 to chemical fuel. Web link: http://web.iitd.ac.in/~sbasu/ |
| 3. | K K Pant | Chemical Engineering | Catalytic, Bio-mass conversion. Web link: http://web.iitd.ac.in/~sipandey/ |
| 4. | Pravin Popinand Ingle | Chemistry | Electrochemistry, Nonmaterials. Web link: http://www.chemistry.iitd.ac.in/faculty/ingole.html |
| 5. | Hamant Kr. Kashyap | Chemistry | Theoretical and Computational Physical Chemistry, Ionic Liquids, Statistical Mechanics, Molecular Dynamics, Lipid Membrane structure. Web link: http://www.chemistry.iitd.ac.in/faculty/kashyap.html |
| 6. | Ravi P Singh | Chemistry | Asymmetric catalysis, C-H activation, total synthesis. Web link: http://chemistry.iitd.ac.in/faculty/singhrp.html |
| 7. | Siddharth Pandey | Chemistry | Novel, alternate media in chemical sciences that are environmentally-benign and non-toxic. Spectroscopic tools of chemical investigation. Web Link: http://chemistry.iitd.ac.in/faculty/pandevs.html |
| 8. | Shivajirao L Gholap | Chemistry | Total synthesis of natural product and development of new synthetic methods. Web Link: http://chemistry.iitd.ac.in/faculty/gholap.html |
| 9. | B R Chahar | Civil Engineering | Groundwater Modelling, Optimization, Numerical Methods. Web link: http://web.iitd.ac.in/~chahar/ |
| 10. | Vasant Matsagar | Civil Engineering | Multi-Hazard Vulnerability Assessment of Structures. Web link: http://web.iitd.ac.in/~matsagar |
| 11. | R. Ayothiraman | Civil Engineering | Pile foundations, Ground Improvement, Earthquake, Geotechnical Engineering. Web link: http://web.iitd.ac.in/~araman/ |
| 12. | Arun Kumar | Civil Engineering | Water Contaminants, Risk Assessment, Water Reuse, Nanoparticles effects on environment, decision-making framework. Web link: http://web.iitd.ac.in/~arunku/ |
| 13. | Bappaditya Manna | Civil Engineering | Shallow and Deep Foundation, Soil Structure Interaction, Machine Foundation, Earth Retaining Structures, Slope Stability. Web link: http://web.iitd.ac.in/~bmanna/ |
| 14. | Smruti R. Sarangi | Computer Science & Engineering | Computer Architecture, Operating Systems. Web Link: http://www.cse.iitd.ernet.in/~srsarangi/ |
| 15. | Sayan Ranu | Computer Science & Engineering | Data Mining. Web Link: http://www.cse.iitd.ernet.in/~sayan/ |
| 16. | Rahul Garg | Computer Science & Engineering | fMRI imaging, Cognitive and Yogic Sciences. Web Link: http://www.cse.iitd.ernet.in/~rahulgarg/ |
| 17. | Maya Ramanath | Computer Science & Engineering | Database and Information Retrieval Techniques for Semantic Web Data Management. Information Extraction and Opinion Mining. Web Link: http://www.cse.iitd.ernet.in/~ramanath/ |
| 18. | M. Veerachary | Electrical Engineering | Power Electronics Web Link: |
| 19. | Sukumar Mishra | Electrical Engineering | Power System Engineering, Intelligent Techniques for Control of Power Systems and Power Quality Studies, Renewable Energy. Web link: http://web.iitd.ac.in/~sukumar |
| 20. | V K Jain | Electrical Engineering | Optical communication & Networks. Web link: http://web.iitd.ac.in/~vkjain |
| 21. | Sumantra Dutta Roy | Electrical Engineering | Computer Vision & Image Analysis, Biometrics, Machine Learning, Music Information Retrieval. Web link: http://www.cse.iitd.ac.in/~sumantra |
| 22. | Anandarup Das | Electrical Engineering | Multilevel Converters, Modular Power Electronics, AC Drives. Web link: http://ee.iitd.ernet.in/people/anandarup.html |
| 23. | Swades De | Electrical Engineering | Communication Networks, Smart Grid Communications, IoT and Energy Harvesting Networks. Web link: http://web.iitd.ac.in/~swadesd/ |

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| 24. | Shankar Prakriya | Electrical Engineering | Cognitive Radio, Wireless Energy Harvesting, Security of wireless links. Web link: http://web.iitd.ac.in/~shankar.prakriya/ |
| 25. | Tapan Kumar Gandhi | Electrical Engineering | Computational Neuroscience, Medical Imaging, Biomedical Signal Processing, Medical Electronics, Assistive Technology. Web link: http://web.iitd.ac.in/~tgandhi/ |
| 26. | S. Janardhanan | Electrical Engineering | Control Systems, Discrete time control, Sliding Mode Control. Web link: http://web.iitd.ac.in/~janas/ |
| 27. | Nilanjan Senroy | Electrical Engineering | Power Systems Dynamics and Control Wind Turbine Generators, Energy Storage Systems. Web link: http://web.iitd.ac.in/~nsenroy/ |
| 28. | Madhusudan Singh | Electrical Engineering | Flexible and Printed Electronics, Solar Cells Thin Films Growth & Device Fabrications, Sensors Material Synthesis, Surface Physics. (NOT interested in VLSI/TCAD/CIRCUITS Candidates). Web link: http://web.iitd.ac.in/~msingh/ |
| 29. | Seshan Srirangarajan | Electrical Engineering | Signal Processing, Wireless Communications, Sensor Networks, Optimization, Machine learning. Web link: http://web.iitd.ac.in/~seshan/ |
| 30. | B. K. Panigrahi | Electrical Engineering | Power Quality, FACTS Devices, Power Systems Protection, AI Application to Power Systems, Soft Computing, Evolutionary Computing. Web link: |
| 31. | Vibha Arora | Humanities & Social Sciences | Political Sociology, ICT and Development, Environmental Sociology, Visual Sociology, Development. Web Link: http://hss.iitd.ac.in/faculty/vibha-arora |
| 32. | Kamlesh Singh | Humanities & Social Sciences | Applied Positive Psychology, Psychological Testing. Web Link: http://web.iitd.ernet.in/~singhk/home/ |
| 33. | Mahim Sagar | Management Studies | Brand Management, Ethical Brand Positioning, Product Development, Consumer Based Business Strategy and Telecom Policy & Marketing. |
| 34. | Surya Prakash Singh | Management Studies | Web link: http://dms.iitd.ac.in/faculty.html |
| 35. | Sanjay Dhir | Management Studies | Strategic Management, Innovations, Joint Ventures, International business, Technology transfer, Creative problem Solving, Management of Change. Web link: http://web.iitd.ernet.in/~sanjaydhir/ |
| 36. | Seema Sharma | Management Studies | Sustainable Development, Productivity and Efficiency Analysis, Energy Economics, Socio-economic Analysis. Web link: http://web.iitd.ac.in/~seemash/ |
| 37. | Arpan Kumar Kar | Management Studies | Business Analytics, Machine Learning, Social Media, M-Commerce, Smart Cities, E- Governance. Web link: http://arpankar.webs.com/research.htm |
| 38. | P Vigneswara Ilavarsan | Management Studies | Social Media Analytics, ICTs for Development. Web link: http://web.iitd.ac.in/~vignes |
| 39. | B. S. Panda | Mathematics | Graph Theory, Algorithmic Graph Theory, Graph Theoretic Algorithms in Wireless Sensor Networks. Web link: http://web.iitd.ac.in/~bspanda/ |
| 40. | S. Chandra Sekhara Rao | Mathematics | Numerical Analysis Web link: http://web.iitd.ac.in/~scsr/ |
| 41. | Niladri Chatterjee | Mathematics | Text Analytics, Semantics, Big Data Web Link: http://web.iitd.ac.in/~niladri/ |
| 42. | Pulak Mohan Pandey | Mechanical Engineering | Rapid Prototyping, Unconventional Machining, Finite Elements, Applications to Manufacturing, CAD/CAM. |
| 43. | Sunil Jha | Mechanical Engineering | Automation, Motion Control, CNC, Mechatronics, Robotics, Autonomous Vertical, Machine Design. Web link: http://web.iitd.ac.in/~suniljha |
| 44. | Sunil Pandey | Mechanical Engineering | Welding and Allied Processes, Welding Procedures, Design & Metallurgy of Welded Joints, Inspection, NDT, Causes & Cure diagrams for Defects, Expert systems, weldability of commercially used industrial alloys & super alloys, Welding Consumables, Physics of Welding, Welding Fluxes, Welding Power Sources, Innovative and need base indigenous Technology Development etc. Expert systems, Welding symbols. |

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| 45. | Nomesh B Bolia | Mechanical Engineering | Operations Research for Public Policy (Transportation, Education, Justice System). |
| 46. | Jitendra Prasad Khatait | Mechanical Engineering | Medical Devices, Medical Robotics, Precision Machine Design. Web Link: http://web.iitd.ac.in/~jpkhatait/ |
| 47. | Naresh V Datla | Mechanical Engineering | Solid Mechanics, Mechanics of Materials, Fracture Mechanics. Web Link: https://www.researchgate.net/profile/Naresh_Datla |
| 48. | S. Mukherjee | Mechanical Engineering | Robotics, Biomechanics. Web Link: http://sudiptomukherjee.com/ |
| 49. | Sujeet Kumar Sinha | Mechanical Engineering | Tribology of polymeric biomaterials. The research work in experimental in nature. Web Link: http://web.iitd.ac.in/~sks/ |
| 50. | S Aravindan | Mechanical Engineering | Welding, Ceramics, Composites & Nanomanufacturing. Web Link: http://mech.iitd.ac.in/content/aravindan-s |
| 51. | P M V Subbarao | Mechanical Engineering | Internal Combustion Engines with RCCI mode of operation Web Link: http://web.iitd.ac.in/~pmvs |
| 52. | Anjan Ray | Mechanical Engineering | Combustion Web Link: http://web.iitd.ac.in/~raya/ |
| 53. | H K Malik | Physics | Electron Transport in Hall Thrusters, Plasma Medicine, Surface Nitriding. |
| 54. | G. Vijaya Prakash | Physics | Nano Photonics, Functional Materials Web Link: http://nanophotonics.iitd.ac.in |
| 55. | Saswata Bhattacharya | Physics | Computational Materials Science, A few specific topics (A) Defects in semi-conductor, (B) Cluster & Catalysis, (C) Energy Materials (D) 2D-graphene like materials. Methods: Density functional Theory & beyond Approaches. Web Link: http://web.iitd.ac.in/~saswata |
| 56. | Apurba Das | Textile Technology | Clothing comfort, Protective Textiles (Fire protection, Extreme cold protection etc.) Nonwovens and Technical Textiles, Water filtrations, composites. |
| 57. | Abhijit Majumdar | Textile Technology | Protective Textile, Operations Management, MCDM, Supply Chain Management. Web link: http://textile.iitd.ac.in/faculty/majumdar/majumdar.htm |
| 58. | Bhanu Nandan | Textile Technology | Polymer Crystallization under Confinement, Functional Electrospun Nanofibers. Web Link: http://web.iitd.ernet.in/~nandan/ |
| 59. | Javed Nabibaksha Sheikh | Textile Technology | Functional Textiles, Natural Dying of Textile Materials, Eco Friendly Textile- Chemical Processing. |
| 60. | Dipayan Das | Textile Technology | Nonwovens, Modelling and Simulation, Product and Process Optimization. |
| 61. | B K Behera | Textile Technology | 3D Weaving, Spacer fabric, Textile Structural composites, Fabric Hand, Protection clothing. |
| 62. | Shiban Kishan Koul | Applied Research in Electronics | Microwave Circuits. Web link: http://care.iitd.ac.in/people/faculty_home.html |
| 63. | Arun Kumar | Applied Research in Electronics | Digital Signal Processing, Speech Processing, Underwater and Air Acoustics Signal Processing, Multi Sensor Fusion. Web link: http://care.iitd.ac.in |
| 64. | Samaresh Das | Applied Research in Electronics | Nanoelectronic and Optoelectronics Devices: Non volatile memory, photodetector, sensor, quantum devices Web link: http://care.iitd.ac.in/people/faculty/samaresh.html |
| 65. | Monika Aggarwal | Applied Research in Electronics | Image Processing, Communication, Signal Processing. Web link: http://care.iitd.ac.in/People/Faculty/M_Aggarwal.html |
| 66. | Mahesh P Abegaonkar | Applied Research in Electronics | Reconfigurable antenna, Metamaterials, Antennas for MIMO. Web Link: http://care.iitd.ac.in/People/Faculty/Mahesh.html |
| 67. | Ankur Gupta | Applied Research in Electronics | RF Microelectronics, Nanotechnology, Device-Circuit Co-Design, Analog Circuit Design. Web Link: http://care.iitd.ac.in/People/Faculty/AnkurG.htm |
| 68. | Pushpapraj Singh | Applied Research in Electronics | MEMS Sensors and Micro Systems, Nanowires for nanodevices and sensing applications, Biochip and nanofabrication technologies, Nanoelectronics, MEMS for biomedical applications. Web Link: http://care.iitd.ac.in/People/Faculty/Pushparaj.htm |

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| 69. | Amit Mehndiratta | Bio-Medical Engineering | Medical Imaging Web Link: http://web.iitd.ac.in/~amehndiratta |
| 70. | Ram Lal | Computer Service Centre | Digital Image Processing and Cryptography. Web link: http://web.iitd.ac.in/~ramlal/ |
| 71. | Jaya | Computer Service Centre | Data Mining, Databases, Text Mining. Web link: |
| 72. | Gopal Krishan | Computer Service Centre | Cloud Computing and Virtualization Web link: |
| 73. | Pragya Jain | Computer Service Centre | Virtualisation/ Cloud Computing, Parallel Computing. Web link: |
| 74. | Ashu Verma | Centre for Energy Studies | Power System Operations & Planning, Microgrid Operations & Control. Web link: http://ces.iitd.ac.in/html/averma.html |
| 75. | Dibakar Rakshit | Centre for Energy Studies | Building energy efficiency, Solar refrigeration, Phase Change Materials Utilization for Thermal heat storage, Energy & Energy Analysis of Thermal Power Plant, Transportation of LNG, Heat & Mass Transfer of LNG Tanks. Web Link: http://ces.iitd.ac.in/dibakar.php |
| 76. | Vinod Kumar | Centre for Energy Studies | UP and down conversion materials for solid state lighting and solar cell application. |
| 77. | K A Subramanian | Centre for Energy Studies | Utilization of Alternative Fuels in Internal Combustion Engines, Combustion, Emissions, CFD. Web link: http://ces.iitd.ac.in/html/subramanian.html |
| 78. | Deepak Kumar | ITMMEC | Hard Coatings, Nano Composite Grease, Green Tribology, Metal working fluid, Water based lubricants, Composites with self-lubricants characteristics. |
| 79. | Jatindra Kumar Sahu | Centre for Rural Development & Technology | Food Processing Engineering, Agriculture Engineering, Food Science and Technology. |
| 80. | Anushree Malik | Centre for Rural Development & Technology | Algal Biofuels, Waste Water Treatment Systems, Plant Based Pesticides. Web Link: http://web.iitd.ac.in/~anushree/ |
| 81. | Satyawati Sharma | Centre for Rural Development & Technology | Biopesticides. |
| 82. | Hari Prasad P | Centre for Rural Development & Technology | Food Technology, Plant Growth Promoting Rhizobacteria, Lignolytic Bacteria and Enzymes, Biofertilizers and Biopesticides. |