

Faculty Interdisciplinary Research Projects (FIRP- 2nd Call 2017) [Total=19]

Project no. (In IRIS)	Short Title	Co-Investigators	
37	Fabrication of nanocomposites based flexible electrodes to be used in microbial fuel cell (MFC) as low energy system for treating textile effluents and other waste water	Md S Wazed Ali (Textile)	Shaikh Ziauddin Ahammad (DBEB)
88	Develop microbe resistant textiles for application in healthcare sector	Deepti Gupta (TT)	Shilpi Sharma (DBEB)
89	High-resolution electrohydrodynamic jet printing for fabrication of customized polymeric structures	Supreet Singh Bahga (Mech.)	Rajiv Kumar Srivastava (TT)
95	Interface Engineering aided Percolating Network of Carbon Nanotube Sensors for Structural Health Monitoring of Nonwoven Materials	Amit Rawal (TT)	Bijay Prakash Tripathi (CPSE)
96	Assessing the Social & Economic Impact of CSR	Shveta Singh (DMS)	Kanika Tandon Bhal (DMS) Purnima Singh (HUSS)
97	High-throughput screening of bioactive metabolites from natural source against Alzheimer's disease (AD) and their chemical synthesis	Hariprasad P (CRDT)	Shivajirao L. Gholap (Chemistry)
101	Development of low cost bioengineered reactive barriers for the treatment of wastewater	Sumedha Chakma (Civil)	Gaurav Goel (Chemical)
104	Performance Evaluation of Particulate Filters for Automotive Applications	Dipayan Das (TT)	Vivek Vitthal Buwa (Chemical)
105	FEM Modeling and Design of Shape Memory Polymer Actuator for Functional Compression Management of Chronic Venous Disorders	Bipin Kumar (TT)	Badri Prasad Patel (AM)
106	Nanocarrier mediated anti-miRNA delivery for cancer treatment	Ritu Kulshrestha (DBEB)	Archana Chugh (KSBS)
107	Electro-spun metal oxide/conducting polymer nanocomposite embedded fabrics for flexible supercapacitor applications	Pravin Popinand Ingole (Chemistry)	Bhanu Nandan (TT)
110	Visible Light Photoredox Catalysis with Semiconductor nanocrystals: Applications in Organic Synthesis	Nidhi Jain (Chemistry)	Anil Verma (Chemical)
113	Novel microfabricated polymeric nano-brush based apta-assay for detection of food borne mycotoxins	Sampa Saha (CPSE)	Ravi Kumar K (CES)

114	Development of fused polyaromatics/heteroaromatics libraries for improved optoelectronic properties	Ravi P Singh (Chemistry)	Supravat Karak (CES)
119	Development of battery powered 3 wheeler	Sumer Singh (IDDC)	Amit Gupta (Mech.)
120	Uncertainty modelling of bin picking system and Determination of Robot Kinematic Parameters using Non-contact Sensors	Sumantra Dutta Roy (Elect.)	Subir Kumar Saha (Mech.)
121	Water - Energy - Climate Nexus: Risk and Resilience of India's Power Grids under Changing Climate	Dhanya C.T. (Civil)	Ashu Verma (CES)
122	Development of Novel Enzyme formulations for Green Textile Chemical Processing	Javed Nabibaksha Sheikh (TT)	Tanmay Dutta (Chemistry)
124	Development of swirling device and textured surfaces for erosion reduction in pipe bends in pneumatic conveying systems	V K Agarwal (ITMMEC)	R. K Pandey (Mech.)