

List of projects approved under the IITD-AIIMS multi-institutional FIRP projects

S. No	Name of AIIMS PI	Name of the IIT-D PI	Title of the Project
1	Dr. Harshal Salve Assistant Professor, Deptt. of CCM	Dr. Sagnik Dey Associate Professor Centre for Atmospheric Sciences	"Mortality burden of ambient PM2.5 exposure in Delhi NCR"
2	Dr. Sanjeev Sharma Professor Deptt. of Cardio- radiology	Dr. Shveta Singh Professor Deptt. of Management Studies	"Applied novel statistical learning and modeling techniques on CT imaging features for prediction of growth of Stanford Type B Aortic Dissection and real options financial assessment of such health care technology"
3	Dr. Rohit Bhatia Professor Deptt. of Neurology	Dr. James Gomes Professor School of Biological Science	"Genomic and Proteomic Characterization of Indian Amyotrophic Lateral Sclerosis"
4	Dr. Rohan Chawla Assistant Professor Dr. RP Centre	Dr. Dinesh Kalyanasundaram Assistant Professor Deptt. of Centre for Biomedical Engg.	"A novel, minimally invasive chemoport for painless Intraocular drug delivery"
5	Dr. Srikumar Venkataraman Assistant Professor Deptt. of Orthopedics (PMR)	Dr. Bipin Kumar Assistant Professor Deptt. of Textile Technology	" Smart Dynamic Fabric Actuator for Prolonged Standing Professionals for Mangement of Chronic Leg Pain"
6	Dr. Asmita Patil Associate Professor Deptt. of physiology	Dr. Debabrata Dasgupta Assistant Professor Deptt. of mechanical Engineering	"To Study the effects of exposure to diesel, biodiesel and biodiesel blend fuel-engine exhaust on testicular morphology and spermatogenesis in male wister rats"
7	Dr. Shubhash Chandra Yadav Assistant Professor Deptt. of Anatomy	Dr. Manidipa Banerjee Assistant Professor Deptt. of Biological Sciences	"External delivery of Cisplatin using Human Papilloma Virus (HPV 16) based nanocarriers for treatment of cervical cancer"
8	Dr. Sujata Mohanty Professor Deptt. of Stem Cell Facility	Dr. Pulak Mohan Pandey Professor Deptt. of Mechanical Engg.	"3D Printed Tracheal Grafts For Regenerative Applications"
9	Dr. Seema Sood & Dr. Arti Kapil Professor Deptt. of Microbiology	Dr. Sunil K. Khare Professor Deptt. of Chemistry	"Studies on halophilic / haloalkaliphilic actinomycetes and bacteria from hypersaline habitat as potential source of antibacterial molecules for drug resistant microbes"
10	Dr. Shyam Prakash Assistant Prof. Deptt. of Lab Medicine	Dr. Sandeep Kumar Jha Assistant Prof. Deptt. of Biomedical Engineering	"Clinical validation of two versions of salivary glucose and urea analysers for developing rapid non-invasive prototypes"
11	Dr. Aanchal Kakkar Assistant Prof. Deptt. of Pathology	Dr. Seshan Srirangarajan Assistant Prof. Deptt. of Electrical Engineering	"Evaluation of Machine Learning Techniques including Deep Learning for the Identification of Malignancy in Tissue Samples"

12	Dr. Rajiv Narang Professor Deptt. of Cardiology	Dr. Jayadeva Professor Deptt. of Electrical Engineering	"Detection of Cardiovascular Hemodynamic Abnormalities using Machine Learning Analysis of Pulse Pressure & Flow Sensor Data "
13	Dr. M V Padma Srivastava , Professor Deptt. of Neurology	Dr. Amit Mehndiratta Asstt. Prof. Deptt. of Biomedical Engg.	"Robotic exoskeleton therapy for Home-based Rehabilitation"
14	Dr. Prabhat Singh Malik Assistant Prof. Deptt. of Med. Oncology	Dr. Ravikrishnan Elangovan Associate Prof. Deptt. of Biochemical Engg. & Biotechnology	"Liquid Biopsy: An exploratory study on exosome based diagnostics for lung cancer"
15	Dr. Rupesh K. Srivastava Assistant Professor Deptt. of Biotechnology	Dr. Satyawati Sharma Professor of (CRDT)	"Development of novel mushroom based synbiotic food supplement for management of Osteoporosis"
16	Dr. Alok Thakar Professor Deptt. of ENT	Dr. Naresh Bhatnagar Professor Deptt. of Mechanical Engg.	"Fabrication of a Biocompatible Low Pressure, Adjustable Length, Indwelling Long Stay, Valved Tracheoesophageal Voice Button"
17	Dr. Rohit Saxena Professor Deptt. of Ophthalmic Sciences, Deptt. of RPC	Dr. Tapan Kumar Gandhi Assistant Professor Deptt. of Electrical Engg.	"Evaluating ocular motion as a tool for characterizing visual field defects"
18	Dr. Rajni Yadav Assistant Prof. Deptt. of Pathology	Dr. Prathosh AP Assistant Prof. Deptt. of Electrical Engineering	"Evaluation of artificial intelligence as a diagnostic tool for automated detection and grading of colorectal cancer"
19	Dr. Ritu Gupta Professor Deptt. of Lab Oncology, BRA IRCH	Dr. Kedar Khare Associate Prof. Deptt. of Physics	"Digital Holographic Microscopy of acute leukemic cells for 3D morphology based classification"
20	Dr. Radhika Tandon Professor Deptt. of Ophthalmology, Dr. RP Centre	Dr. Sourabh Ghosh Professor Deptt. of Textile Technology	"To generate feasibility data for Human Clinical Trial in infectious Keratitis patients"
21	Dr. Vaishali Suri Professor Deptt. of Pathology	Dr. Ritu Kulshrestha Associate Prof. Deptt. of Biochemical Engg. & Biotechnology	"Identification of non-coding RNA panel as novel biomarker for stratification of meningiomas and evaluation of its prognostic and therapeutic significance"
22	Dr. Amit Kumar Dinda , Professor Deptt. of Pathology	Dr. Tapan Kumar Chaudhuri Professor School of Biological Sciences	Development of recombinant Novel stimuli Responsive Elastin-like Polypeptide Based Platform for wound healing and regeneration.
23	Dr. Sushma Bhatnagar Professor Deptt. of Onco- anaesthesia & palliative medicine, AIIMS	Dr. Veena Koul Centre for Biomedical Engg.	Validation of developed iontophoretic device with disposable patches for pain management in clinical settings
24	Dr. Manjari Tripathi Professor Deptt. of Neurology	Varsha Singh Asstt. Professor Dept. of Humanities & Social Sciences	Neural Basis of Decision Making: Lateralization of Cognitive Function in Medial Temporal Lobe Epilepsy Patients.
25	Dr. Karan Madan Assistant Prof. Deptt. of PMSD	Dr. A.K. Ghosh Professor Deptt. of Mechanical Engg.	"Design and Development of a Biodegradable Airway Stent"

