

**4.5 (iv) List of schemes/projects/programme underway:**

<b>Title of the project (Interdisciplinary projects)</b>	<b>Name of PI</b>	<b>Amount Sanctioned (Rs. in Lakhs)</b>
PUNJRobotics: Robotizing Solutions	Dr. Ekta Singla	100
Investigation of the effect of Cancer on Properties of Biological Tissues by using Imaging Techniques	Dr. Navin Kumar	150
Fabrication and evaluation of mesoporous nanomaterials to target chemotherapy to ductal carcinoma in situ (DCIS) and invasive breast cancers	Dr. Yashveer Singh	30
Non-invasive ablation of cancerous tumour using optical and thermal techniques	Dr. Ramjee Repaka	160
Fabrication Facilities	Dr. Rakesh Kumar	432
Development of low cost, sustainable material systems for efficient generation, storage and transportation of hydrogen	Dr. C. M. Nagaraja	100
Utilizing solar energy for thermal applications (Heating, Cooling, processing, thermal storage)	Dr. Himanshu Tyagi	53
Renewable and Clean Energy: New Materials optimization to product development	Dr. Mukesh Kumar	118.71
Multifunctional Sensors for Complex Matrix	Dr. Narinder Singh	203.93
Defect Detection Capabilities of Various Excitation Schemes for Infrared (Thermal) Non-Destructive Characterization of Solids	Dr Ravibabu Mulaveesala	85
Novel Propulsion System/Defense (Design and Development of RailGun System)	Dr Srikant Sekhar Padhee	1.03