



Indian Nanoelectronics Users' Programme - Idea to Innovation (INUP- i2i)

List of selected participants whose project proposals are approved under INUP-i2i programme



Short Term Project Proposal

S.NO	Name	Project Title	Institute	Type
1	Kedar Singh	Fabrications and study of Ultra-stable core-shell halide perovskite NCs/graphene-based hybrid photodetectors	Jawahar Lal Nehru University (JNU)	short-term
2	Pratima Chauhan	Heterostructure Photodetector	University of Allahabad, Allahabad	short-term
3	Loushambam Herojit Singh	Ferroelectric polymer based ZIFs film for effective nanogenerators	National Institute of Technology (NIT Manipur), Manipur	short-term
4	Dr. Mohammad Zubair Ansari	Effect of Sb doping on structural, optical and electrical properties of SnO ₂	National Institute of Technology, Srinagar	short-term
5	Rakesh Kumar	Adhesion mechanics and strainengineering in 2D Materials	Indian Institute of Technology Ropar (IIT Ropar)	short-term
6	Kamal Devlal	Synthesis and Characterization of 7- Diethylamino-4-methyl coumarin as the photosensitizer for highly efficient dyesynthesized solar cell	Uttarakhand open university, Haldwani	short-term
7	Manish Kumar	Structural, Morphological and optical study of GA0.05FA0.095SNxPB1-XI3 Perovskite films for solar cells application	Jawahar Lal Nehru University (JNU)	short-term
8	Adiba	Resistive Switching characteristic of transition metal oxide based device.	Aligarh Muslim University, (AMU) Aligarh	short-term
9	SATYENDRA PRAKASH PAL	Resistive switching behaviour of different nanostructures and their applications	Banaras Hindu University (BHU), Varanasi	short-term
10	HUIDROM HEMOJIT SINGH	Tribocatalytic dye degradation	Gauhati University, Guwahati	short-term
11	MANIKA KHANUJA	Synthesis of Novel 2D/2D heterostructure based on MX/V 2 O 5 for the degradation of various toxic pollutants	Jamia Millia Islamia, New Delhi (JMI)	short-term
12	Preeti	Characterization of gas sensing material & fabrication of gas sensing device on interdigitated electrodes	Malaviya National Institute of Technology (MNIT), Jaipur	short-term
13	AMENA SALIM	Fabrication and characterization of Graphene oxide-based nanocomposites for high performance energy storage devices	Malaviya National Institute of Technology (MNIT), Jaipur	short-term
14	S Pratap Singh	Studies on Nanostructure Ag-doped ZnO for Sensing Applications	Galgotias College of Engineering and Technology	short-term
15	Manoj Kumar	Fabrication and characterization of topological insulator nanoflake devices	Malaviya National Institute of Technology (MNIT), Jaipur	short-term



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16	Abhijit Dey	Characterization of Novel TiN-CrN-ZrN functionally graded composite coatings for biomedical implant material	National Institute of Technology, Srinagar	short-term
17	Asutosh Srivastava	Fabrication & Characterization of Resistive Random Access Memory for Application in AI	Jawahar Lal Nehru University (JNU)	short-term
18	Dr Ashutosh Pandey	Designing Metal Organic Frameworks based electrochemical sensor for the detection of an anticancer drug	Motilal Nehru National Institute of Technology, (MNNIT), Allahabad	short-term
19	MA SHAH	Development of Titania-based nanostructures for energy storage	National Institute of Technology, Srinagar	short-term
20	Dr Vishakha Kaushik	Transition metal dichalcogenides materials for energy storage	DIT University, Dehradun	short-term
21	Dr Sagar Sen	Tuning of structural, magnetic, and electronic properties of CoFe ₂ O ₄ thin films for spintronics applications	Maharaja Bhoj Govt PG College Dhar	short-term
22	Dr Anurag Gaur	Metal Oxide Based Hydroelectric Cell	Netaji Subhas University of Technology	short-term
23	Adnan Qayoum	Development and characterization of natural Insulating Material as building Envelope	National Institute of Technology, Srinagar	short-term
24	Sadhika Khullar	Synthesis and characterization of Transition metal-based electrolytes for water splitting reactions	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar	short-term
25	Gagan sharma	Metal Oxide Based Nanocomposites for Photoelectrochemical Water Splitting Application	Delhi Technological University (DTU)	short-term
26	Vipul Bhardwaj	Silver/Nickel doped ZnO nano-composite for the detection of Heavy ions from wastewater.	MOHAN BABU UNIVERSITY, TIRUPATI, ANDHRA PRADESH	short-term
27	Arushi Pandey	Composition-Driven Structural, Optical, and Electrical Advancements of CuO-rnZnO Nanocomposites for Optoelectronic Applications.	University of Allahabad, Allahabad	short-term
28	Prof R K Dwivedi	Studies of photocatalytic response of NaNbO ₃ based materials via photo-electrochemical water splitting process	Jaypee Institute of Information Technology Noida	short-term
29	shradhey gupta	Unveiling Eco-Conscious Approach to Broadband Energy Efficient Solar Cell: SynergizingrnCarbon-Associated Moieties in Crafting Silicon Materials without Rare Earth Metals	G D Goenka University, Sohna	short-term
30	Shalu	Rechargeable batteries with flexibility for wearable technology	Sharda university	short-term
31	Deepak Kumar Sharma	Fabrication of source gated thin film transistors (TFTs) for sensor interfaces	Punjab Engineering College (PEC) , Chandigarh	short-term
32	Dinesh Tripathi	Thermoelectric Generator for Powering Healthcare Devices	Jaypee Institute of Information Technology Noida	short-term



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33	Prof Babita Tripathi	Bismuth Based Materials for Supercapacitor Applications.	Sharda university	short-term
34	Dr Pawan Singh Dhapola	Synthesis and characterization of carbon based materials from agricultural waste for supercapacitor applications	Sharda university	short-term
35	Garima Nagpal	Development of nano filter membrane for water quality improvement	Sharda university	short-term
36	Rohit R Shahi	Studies on synthesis characterization and magnetic properties of FeCoNi-based High Entropy Alloys Thin Films	Central University of South Bihar, Bihar	short-term
37	Rinki Aggarwal	PbSe/Si NW heterojunction-based photodetector for IR radiations by chemical bath deposition	Amity University	short-term
38	S.V. eswaran	<i>Characterization (Structural, electrical and magnetic) of water soluble nanocarbon materials</i>	NSIC Okhla Head office	Short-term
39	Monika Srivastva	Fabrication of lead based perovskite solar cells	Sharda University, Noida	Short-term
40	Dr. Mohammad Waseem Akhtar	Skyrmion and its dynamics in ultrathin magnetic oxide	Jamia Millia Islamia, New Delhi (JMI)	Short-term



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Medium Term Project Proposal

S.NO	Name	Project Title	Institute	Type
1	HUIDROM HEMOJIT SINGH	Fabrication of PVDF-nanocomposite based triboelectric nanogenerators	Gauhati University, Guwahati	medium-term
2	Kunal Jayprakash Borse	Synthesis and characterization of CZTSe thin film deposited by electroless plating method for solar cell applications	Malaviya National Institute of Technology (MNIT), Jaipur	medium-term
3	Neetu Bansal	Structural and optical Properties of BTO-ZnO-based UV-Photodetector	Amity University Punjab	medium-term
4	Prof G D Varma	Fabrication and characterization of Josephson Junction with Fe(Se, Te) superconductor	Indian Institute of Technology, Roorkee (IITR)	medium-term
5	Dr. Mohammad Zubair Ansari	Development of Cu ₂ ZnSnS ₄ /MoS ₂ Nanocomposites Photoelectrodes photodetection	National Institute of Technology, Srinagar	medium-term
6	Sachin Gupta	Growth and characterizations of thin films of Heusler alloys for novel Spintronic devices	Bennett University	medium-term
7	Akshay Kumar	Hot electron dynamics study in transition metal dichalcogenides based nanocomposites for photodetection	Sardar Patel University Mandi	medium-term
8	MANIKA KHANUJA	2-dimensional nanomaterials (WS ₂ , MXene and MoS ₂) based hybrid nanostructures: for wastewater treatment	Jamia Millia Islamia, New Delhi (JMI)	medium-term
9	Jayant Kolte	Microarchitected Biopolymer based triboelectric nanogenerator	Thapar Institute of Engineering and Technology, Patiala	medium-term
10	Dr Himani Sharma	Fabrication of real time gas sensing device with fast response and recovery time using MoS ₂ hybrid structures	Doon university	medium-term
11	Akshay Kumar	Study of Ti ₃ C ₂ T _x MXene as THz Electromagnetic Interference Shielding Material	Sardar Patel University Mandi	medium-term