

AUC 80

Details of approval like Runs/Shifts/Samples/UFR Funds/BTA etc. will be communicated by post.

Sr No	AUC ID	PI	Title	UFR Status
1	80103	Aninda Mazumdar	14C measurement of foraminifera and other calcareous shells.	Approved
2	80104	Dr. Ishfaq Ul Rehman	Decoding Late Quaternary Regime Shifts in Dal Lake, Kashmir: A Multiproxy Approach.	Approved
3	80107	Dr. Pradeep Srivastava	Tracing solar-monsoon linkages using 10Be in Holocene Lake sediments from the Indian Himalaya and Ganga plains.	Approved
4	80109	Amudha K	Assessment of the Time Scale of Polymetallic Nodules (PMNs) and the Relative Hardness from Core to Periphery of samples across different ocean locations and depths.	Approved
5	80122	Siby Kurian	Past ventilation changes in the oxygen minimum zone of the Arabian Sea.	Approved
6	80106	Joju George Sebastian	Develop a High Resolution Late Quaternary Magnetofossil Record for the Arabian Sea Sediments.	Approved
7	80203	Nidhi Verma C/O Pradeep Srivastava	Antibiotic Resistance and Bacterial Diversity in Permafrost of Ladakh Region.	Approved
8	80207	Priyanka Bhandari C/O Prof. Narendra Kumar	Late Holocene Paleoclimate Reconstruction from the High-altitude Meadows of the Garhwal Himalaya.	Approved
9	80209	Krishna Bhuyan C/O Prof.Parag Phukon	Late Quaternary sedimentation history and fluvial landscape development in the north Brahmaputra plain, Northeast India.	Approved
10	80216	Amit Sharma C/O Avtar Singh Jasrotia	Assessment and management of subsurface characteristics of groundwater in the Jammu region using electrical resistivity tomography technique and machine learning approach.	Approved
11	80218	Abhijeet Tripathi C/O Dr. Supriyo Kumar Das	Blue carbon sequestration in limnic, deltaic and coastal environments in India.	Approved
12	80221	Shweta Shekhar Wahurwagh C/O Dr. Sumedh K. Humane	Multiproxy records of the holocene paleoclimate and environmental changes from Chandrapur, Amravati and Gadchiroli districts of Maharashtra, India.	Approved
13	80224	Amol Kumar Garg C/O Dr. Sk Mustak	Remote Sensing and Field-Based Assessment of Climate Change and Hydro-Geomorphologic Dynamics on Peatland in the Western Himalaya, Uttarakhand.	Approved
14	80225	Adhra Renny C/O Dr. Manoj M.C	Reconstruction of late Quaternary monsoon variability and associated sediment provenance, productivity and water masses from Arabian Sea.	Approved
15	80230	Gangmei Gaichunglu C/O Champoungam Panmei	Spatial Variability of the Indian Monsoon System using Western and Eastern Himalayan Lake and Meadow Sediment Archives.	Approved
16	80228	Rajesh Kumar C/O Rajeev Saraswat	Foraminiferal response to the riverine influx and its application to reconstruct the past monsoon intensity from the northern Bay of Bengal.	Approved
17	80239	Ajay Kumar C/O Dr. Swati Tripathi	Holocene Vegetation and Climate Dynamics of Brahmaputra Basin: Insights from a multiproxy study of upper Assam.	Approved
18	80244	Sudeshna Biswas C/O Manoj Kumar Singh	Radiocarbon Dating of Organic Matter in Rock Art Pigments and Weathering Rate Analysis of Rock Surfaces using AMS.	Approved

19	80315	Seema Singh	Surface exposure dating of offset fan and moraine deposits along the Karakoram Fault (KF).	Approved without UFR Funds
20	80123	Prof. Punita Verma	A peek into the world of Super-Heavy systems in quasi adiabatic Regime using X-rays as signatures.	Approved
21	80234	Mr. Dharun J C/o. Dr. Krishnendu Gope	Ultrafast Nuclear Rearrangement Dynamics in Substituted Hydrocarbon Dications.	Approved
22	80524	Mr. Dharun J C/o. Dr. Krishnendu Gope	Ultrafast Nuclear Rearrangement Dynamics in Substituted Hydrocarbon Dications.	Approved
23	80246	Ms. Rinku Khatkar C/o. Dr. Mumtaz Oswal	Systematic Investigation of M-shell X-ray Production Cross Sections in Rare-Earth (Er, Yb) and Heavy Metal (Au, Bi) Targets induced by 16O and 19F Ions in the 70-110 MeV Energy Range.	Approved
24	80526	Prof. Umesh R. Kadhane	Energetic proton-induced ring expansion and rapid dehydrogenation in methylated and ethylated PAHs.	Approved
25	80531	Prof. Punita Verma	Investigation of quasiadiabatic heavy ion atom collisions in the low energy regime.	Approved
26	80238	Ms. Sharieka Sharief C/o. Dr Raja Nisar Ali	Investigating the interplay between projectile break-up and fusion dynamics at near and above barrier energies.	Approved
27	80245	Ms. Vadali Choudhary C/o. Dr. Ashok Kumar Mondal	Study of the Astrophysical $^{14}\text{N}(p, \gamma)^{15}\text{O}$ Reaction using Indirect Asymptotic Normalization Coefficient (ANC) Method.	Approved
28	80514	Ms. Vadali Choudhary C/o. Dr. Ashok Kumar Mondal	Study of the Astrophysical $^{14}\text{N}(p, \gamma)^{15}\text{O}$ Reaction using Indirect Asymptotic Normalization Coefficient (ANC) Method.	Approved
29	80223	Mr. Vikas C/o. Dr. Meenu Thakur	Study of fusion-fission dynamics of ^{197}Bi nucleus populated through $^{32}\text{S} + ^{165}\text{Ho}$ reaction.	Approved
30	80227	Mr. Satyam Gangwar C/o. Prof. Avinash Agarwal	Probing of Entrance Channel Effects in Heavy-ion Induced Fission Dynamics at Moderate Excitation Energies.	Approved
31	80231	Mr. Rajat Kumar Sahu C/o. Prof. Samit Kumar Mandal	Investigation of Multi-Mode Fission of Lower Pre-actinide Nuclei.	Approved
32	80111	Dr. Subir Nath	Fusion barrier of heavy and super-heavy systems mapped by measurement of scattered target-like ions at forward angles.	Approved
33	80212	Mr. Raja Chakraborty C/o. Prof. Dhruba Gupta	Study of proton and deuteron scattering from ^7Be at 10 MeV.	Approved
34	80247	Mr. Dominic Savio C/o. Prof. Moumita Maiti	Study of fusion and positive Q-value neutron transfer channels in heavy-ion reactions around sub-barrier energies.	Approved
35	80215	Mr. Jay Kaushik C/o. Prof. Sujit K. Tandel	Single-particle excitations in the vicinity of doubly-magic nuclei.	Approved
36	80217	Mr. Sachin Kumar Singh C/o. Prof. Sujit K. Tandel	Nuclear excitations and the K- quantum number.	Approved
37	80108	Dr. Sayantani Karmakar	Radio sensitization of Glioblastoma Using Verapamil and Berberine Combination in Cell Lines with Carbon Ion Beam Irradiation.	Approved
38	80305	Dr. Pallavi Srivastava	In vitro effect of Nanoparticles with piperine in radiation-resistant cancer cells to develop effective radiosensitizer.	Approved without UFR Funds
39	80310	Dr. Rajni Singh	Nanoencapsulated Chemotherapeutic Drug in Combination with Radiotherapy for Pancreatic Cancer Treatment.	Approved without UFR Funds

40	80117	Dr. Sanju	Surface modification and defect engineering of TiO ₂ nanotubes and nanorods by swift heavy ion irradiation.	Approved
41	80118	Dr. Ramcharan Meena	Defect engineering in Pb-free multi-layered perovskite BaBi ₄ Ti ₄ O ₁₅ relaxor for energy storage applications.	Approved
42	80522	Dr. Ramcharan Meena	Defect engineering in Pb-free multi-layered perovskite BaBi ₄ Ti ₄ O ₁₅ relaxor for energy storage applications.	Approved
43	80214	Ms. Amruta A C/o. Dr. Dileep Kumar	Optimization and Enhancement of Magnetic Properties of Layered Nanostructures through Ion Beam and Nanopatterning.	Approved
44	80235	Mr. Manish C/o. Dr. Parasmani Rajput	Studies of Interface Dynamics in Co based thin films and multilayer.	Approved
45	80240	Mr. Manoj Aravindh S C/o. Dr. P. Sivakumar	Ion Beam Irradiation-Induced Effects in High-Entropy Metal Oxide Electrodes for Efficient Alkaline Electrolysis toward Green Hydrogen Generation.	Approved
46	80530	Mr. Manoj Aravindh S C/o. Dr. P. Sivakumar	Ion Beam Irradiation-Induced Effects in High-Entropy Metal Oxide Electrodes for Efficient Alkaline Electrolysis toward Green Hydrogen Generation.	Approved
47	80213	Mr. Rajkumar Shanajaoba Singh C/o. Dr. Vinod E. Madhavan	Towards the realization of a highly controllable multilevel Phase Change Memory device with low power density using ion implantation engineered Ge ₄ Sb ₆ Te ₇ .	Approved
48	80506	Mr. Rajkumar Shanajaoba Singh C/o. Dr. Vinod E. Madhavan	Towards the realization of a highly controllable multilevel Phase Change Memory device with low power density using ion implantation engineered Ge ₄ Sb ₆ Te ₇ .	Approved
49	80243	Mr. Bipul Chandra C/o. Dr Balaji Birajdar	Effect of ion-iradation on metal-induced-crystallisation and layer exchange for Aluminum-Silicon thin films using Transmission Electron Microscopy.	Approved
50	80532	Mr. Bipul Chandra C/o. Dr Balaji Birajdar	Effect of ion-iradation on metal-induced-crystallisation and layer exchange for Aluminum-Silicon thin films using Transmission Electron Microscopy.	Approved
51	80302	Prof. Dambarudhar Mohanta	Exploring Radiation Resistant High Entropy Alloys under Swift Ion Irradiation.	Approved without UFR Funds
52	80312	Prof. Khadke Udaykumar	Swift Heavy Ion-Induced Graphitization of Ferroelectric Polymers for Metamaterial Applications.	Approved without UFR Funds
53	80318	Dr. Rishi Ranjan Kumar	Irradiation-Driven Defect Engineering at In ₂ O ₃ /ZnO Heterointerfaces with Patterned IDE Arrays for Room-Temperature Gas Sensing.	Approved without UFR Funds
54	80307	Dr. Ayan Mukherjee	Advanced Ion Beam-Assisted Defect and Porosity Engineering of NiCo ₂ , O ₂ , and Bio-Carbon Electrodes for Energy Storage and Electrochemical Water Splitting	Approved without UFR Funds
55	80503	Dr. Ayan Mukherjee	Advanced Ion Beam-Assisted Defect and Porosity Engineering of NiCo ₂ , O ₂ , and Bio-Carbon Electrodes for Energy Storage and Electrochemical Water Splitting	Approved
56	80314	Prof. Arijit Chowdhuri	Engineering Cu-implanted MoO ₃ thin films for trace-level detection of Dibutyl Sulfide (DBS): a mustard gas simulant.	Approved without UFR Funds
57	80518	Prof. Arijit Chowdhuri	Engineering Cu-implanted MoO ₃ thin films for trace-level detection of Dibutyl Sulfide (DBS): a mustard gas simulant.	Approved
58	80316	Dr. Kriti	Engineering of WO ₃ and Its Polymer Nanocomposites for Visible-Light-Driven Pharmaceutical Degradation by Ion Beams.	Approved without UFR Funds
59	80513	Dr. Kriti	Engineering of WO ₃ and Its Polymer Nanocomposites for Visible-Light-Driven Pharmaceutical Degradation by Ion Beams.	Approved
60	80505	Dr. Keshav Kumar	Structure-Property Correlation in Chemically and Irradiation-Modulated Pyrochlores-Cd ₂ (Zr _{2-x} B _x)O ₇ (B = Ru, Mo, Nb, Sn; 0 ≤ x ≤ 1): Radiation Tolerance and Ferroic Properties Behavior.	Approved

61	80508	Dr. Sreekanth G	Ion Irradiation Effects on Thiourea and Allylthiourea Complex Crystals for Tunable Nonlinear Optical Applications.	Approved
62	80510	Prof. Sambhunath Bera	Ion-irradiation-induced tailoring of magnetic properties of exchange spring magnetic nanocomposites.	Approved
63	80515	Dr. Rakesh	Engineering Tunable Single-Photon Emission in Fixed-Layer hexagonal boron nitride (hBN) via Carbon and Silicon Doping.	Approved
64	80520	Dr. Pinki Singh	Defect Engineering of doped-AgNbO ₃ Thin Films via Low-Energy Ion Beam Irradiation.	Approved