

Details of approval like shifts/UFR Funds/BTA etc will be communicated by post.  
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## List of AUC-70 Approved Proposals

### BTR-1: Fresh proposals

S No	PI Name Affiliation	Title
1	Mr. Gopakumar B Sr. Geologist, Geological Survey of India, Marine and Coastal Survey Division, Mangala Devi Road, Mangalore, Pandeshwar, Karnataka- 575001	Reconstruction of palaeoclimatic and oceanographic conditions by using geochemical and mineralogical proxies from sediment core of South Eastern Arabian Sea.
2	Prof. Giacomo de Angelis, Dirigente di Ricerca, INFN Laboratori Nazionali di Legnaro, viale dell'Universita' 2 I 35020 Legnaro Italy,	Coherent contributions of protons and neutrons to octupole collectivity: the 3- octupole state in $^{64}\text{Zn}$ .
3	Dr. Parswajit Kalita Assistant Professor, Dept. of Physics, School of Engineering, University of Petroleum and Energy Studies(UPES), Bidholi, Dehradun - 248007	Irradiation of ceramic composites: Studies from the perspective of application as Nuclear Materials.
4	Prof. Anil Kumar Gupta IIT Kharagpur, Department of Geology and Geophysics, Kharagpur, West Midnapore, West Bengal- 721302	Stable isotope analysis of lake sediments.
5	Dr. A. K. Singhvi DST Year of Science Chair Professor, AMOPH Division, Physical Research Laboratory(PRL), Navarangpura, Ahmedabad-380009,	Long term evolution of the Thar Desert using insitu produced $^{10}\text{Be}$ and $^{26}\text{Al}$ Cosmogenic Radionuclides, and Optically Stimulated Luminescence Dating of aeolian and fluvial sands.
6	Dr. C. S. Chanotiya Principal Scientist, CSIR-Central Institute of Medicinal and Aromatic Plants(CIMAP), Near kukrail Picnic Spot Road, Lucknow-226015,	Natural origin traceability of food flavors using Carbon14 dating method.
7	Dr. Dipika Patel Assistant Professor, S. V. National Institute of Technology, Surat	Quasi-elastic scattering measurements for $^{28}\text{Si}$ + $^{206,208}\text{Pb}$ systems.
8	Prof. Gayatri Ramakrishna Institute of Liver Biliary Sciences(ILBS), Dept. MCM, D1, Vasant Kunj, Delhi- 110070	Determination of growth history of human gall bladder stone using bomb pulse radiocarbon dating.
9	Dr. Vishal Srivastava D S K Postdoctoral Fellow, Department of Physics, Panjab University, Chandigarh-160014	Study of $^{10}\text{B}$ and $^{11}\text{B}$ induced reactions on $^{144}\text{Sm}$ and $^{154}\text{Sm}$ targets.
10	Dr. Sanat Kumar Mukherjee Assistant Professor, Birla Institute of Technology, Mesra, Ranchi - 835 215, Jharkhand	Role of Ag ion implantation in enhancing the conductivity limits of multilayer transparent conducting oxides.
11	Dr. Chandreyee Goswami Research Assistant, Institute of Rock Structure and Mechanics, Prague, 94/41, V Holesovickach, Prague	Determination of time of deposition from the Quaternary beds within the piedmont sediments in North Bengal to establish the chronostratigraphy of the sediments below different surfaces.

S No	PI Name Affiliation	Title
12	Prof. Anil Kumar Gupta IIT Kharagpur, Department of Geology and Geophysics, East Medinipur, West Bengal-721302	Variability of ISM in India during Holocene : Taking lake sediments as proxy.
13	Dr. Resmi M R Asst. Professor, Banasthali Vidyapith, 20/16 A, Girnar, Panchsheel Marg, Gandhi Path, Queens Road, Jaipur-302021	CRNs ( <sup>14</sup> C) , X-Ray Fluorescence (XRF).
14	Dr. Omar Jaan Paul Research Scholar, Department of Geoinformatics, University of Kashmir, Hazratbal Srinagar, Jammu and Kashmir	Reconstruction of glacial history of Suru basin, North-western Himalaya using Cosmogenic nuclide dating.
15	Dr. Soumya Prakash Dhal Principal Project Associate, COE for Glacial Studies in Western Himalaya, Dept. of Geoinformatics, University of Kashmir, Hazratbal, Srinagar, Jammu and Kashmir-190006	Measurement of <sup>10</sup> Be/ <sup>9</sup> Be on surface sediment samples and estimation of catchment average present denudation rates of the river Jhelum and its tributaries.
16	Prof. Rudrajyoti Palit, TIFR, Mumbai-400005	Investigation of cluster structure in <sup>54</sup> Cr.
17	Dr. Sunil Dutt Assistant Professor, RPS, Degree College, Balana, Mahendergarh, Haryana- 123029	Coulomb excitation measurement of some even-A Pd-isotopes.

### BTR-2: Thesis Proposals

S No	PI Name Affiliation	Title
18	Ms. Veena G Viswam Research Scholar, C/o. Dr. N. R. Nisha, Assistant Professor, Department of Marine Geology and Geophysics, Cochin University of Science and Technology, Lakeside Campus Fine Arts Avenue Cochin- 682016	Physical and biogeochemical processes of the Bay of Bengal and its effects on the monsoonal system- a sedimentological, geochemical and faunal approach.
19	Ms. Deepa Singh C/o. Prof. P. K. Mehta, Department of Physics, The M.S. University of Baroda	Studies on Irradiated biodegradable polymers incorporated with metal-based salts and nanoparticles for potential antibacterial and electrolytes properties.
20	Mr. Vikas Mundlia C/o. Dr. Hardev Singh, Assistant Professor, Department of Physics, Kurukshetra University,	Fusion-fission studies in medium mass region through the mass and angular distribution of fission fragments.
21	Mr. Mohd. Shariq Asnain C/o. Prof. Bhanu Prakash Singh, Department of Physics, Aligarh Muslim University, Aligarh, Pin code-202002, Uttar Pradesh	A study of fusion incompleteness in Heavy-ion interactions at Low Energies.
22	Mr. Harish Bisht C/o. Prof. Bahadur Singh Kotlia , Professor and UGC Research Scientist, Centre of Advanced Studies, Department of Geology, Kumaun University Nainital, Uttarakhand, Pin Code: 263001	Multi proxy studies for reconstruction of Holocene climate using palaeolake and comparison with palaeoglaciacion in high mountainous environment of Uttarakhand Himalaya.

S No	PI Name Affiliation	Title
23	Mr. Chandra Kumar C/o. Dr. Subir Nath, Scientist- G , Dept. of Nuclear Physics , Inter-University Accelerator Centre(IUAC), Aruna Asaf Ali Marg, New Delhi-110067	Investigation of Low energy reaction dynamics.
24	Ms. Shikha kaushik Reserach scholar, C/o. Prof. D.K.Avasthi, Dept.:Dean R&D, UPES Dehradun	Metal rich metal oxides for RRAM applications.
25	Ms. Neha Dhanda C/o. Prof. Ashok Kumar, Dept. of Physics, Panjab University, Chandigarh-160014	Probing of fusion -fission dynamics in the 201Bi.
26	Ms. Kavya Aravind C/o. Dr. N. R. Nisha, Assistant Professor, Department of Marine Geology and Geophysics, School of Marine Sciences, Lakeside Campus, Cochin University of Science and Technology, Cochin-682016	High resolution paleomonsoon records of the ninetyeast ridge - A multi proxy approach.
27	Mr. Bilal Ahmad Sunu C/o. Dr. Meenal Mishra , Associate Professor , School Of Sciences, IGNOU, New Delhi	10-Be dating of Pleistocene sediments.
28	Ms. Mitthu Dhali C/o. Prof. Javed N. Malik, Dept. Of Earth Sciences , IIT Kanpur, Uttar Pradesh	Morphotectonic evaluation and Paleoseismic studies of the Himalayan frontal belt bounded by the Main Boundary Thrust (MBT) and Himalayan Frontal Thrust (HFT), Kumaun Himalaya.
29	Mr. Waseem Ul Haq Research Scholar, C/o. Prof. Santanu Ghosh , Dept. Of Physics, IIT Delhi	Synthesis and characterization of Nano-structured material for energy applications.
30	Ms. Purna Singh Rawat C/o. Dr. Suresh Kumar, Associate Professor, Department of Physics & Astrophysics, North Campus, University of Delhi, New Delhi-110007	Investigation of octupole collectivity & octupole $\Delta I = 3$ Isomers in Mass A=200 region.
31	Ms. Yamuna Sali A S C/o. Dr. Anish Kumar Warriar, Associate Professor of Geology and Coordinator, Centre for Climate Studies, Department of Civil Engineering / Department of Sciences, Manipal Academy of Higher Education	Geochronology and paleoclimatic inferences from lake sediments in Southern India.
32	Ms. Amrutha K C/o. Dr. Jitendra Kumar Pattanaik, Associate Professor, Dept. of Geology , Central University of Punjab	Impact of Quaternary climate change on long term denudation rate in different basins of Himalayan Rivers.
33	Mr. Gokul Das H C/o. Prof. M. M. Musthafa, Department of Physics, University Of Calicut	Measurement of (n,p) cross section for reactions of interest in fission and fusion reactors using surrogate method.
34	Mr. Janmejay Mahto C/o. Dr. Ranjeet Kumar Karn, Assistant Professor, University Department of Physics, Kolhan University, Chaibasa, West Singhbhum, Jharkhand - 833202	Beam-foil spectroscopy of various charge states of Fe & Ni relevant to Astrophysics.

S No	PI Name Affiliation	Title
35	Mr. Ammoose K Jayan C/o. Dr. Sijin Kumar A V, Assistant Professor, Department of Geology, Central University of Kerala, Periyar, Kasaragod- 671320	Indian summer monsoon variability and paleoceanographic changes in the holocene sediments from the Bay of Bengal.
36	Ms. Sreevidya E C/o. Dr. Sijin Kumar A V, Assistant Professor, Department of Geology, Sabarmati Building, Central University of Kerala, Tejaswini Hills, Periyar, Kasaragod-671316	Indian Ocean paleoceanography during the late Quaternary period inferred from the pteropod records.
37	Ms. Elora Chakraborty C/o. Prof. Milap Chand Sharma , Dept. Of Centre for the Study of Regional Development, JNU, New Delhi 110067	Glacial facies, surface velocity and event chronology in Chandrabhaga Basin with a special reference to Menthosa glacier, Northwest Himalaya.
38	Mr. Aditya Kumar C/o. Dr. C.P.Safvan, Scientist-G, Dept. of Atomic and Molecular Physics , Inter University Accelerator Centre , New Delhi-110067	Interaction of ion/neutral with atoms and molecules.
39	Mr. Aravind G H C/o. Dr. Sandeep K, Assistant Professor, Department of Geology, Central University of Kerala	Deciphering the past climate and monsoon variability from lake sediment records of Southern India.
40	Mr. Sanjay Kumar Kedia Scientist D, C/o. Prof. Sujeet Chaudhary , Dept. Of Physics, IIT Delhi	Effect of swift ion irradiation on exchange bias in FM/AF bilayers.
41	Mr. Peramjeet Singh Research Scholar, C/o. Prof. Narendra Kumar Pandey, Department of Physics , University of Lucknow	Synthesis and characterization of transition metal oxides and their application as Humidity and Gas Sensors.
42	Mr. Amrit Kumar Gupta C/o. Prof. H. P. Sharma, Department of Physics, Banaras Hindu University Varanasi, Uttar Pradesh, Pin: 221005	Study of Yrast and Non-Yrast Band -structure of nuclei near mass region A~140.
43	Ms. Phurba Sherpa C/o. Dr. Shashi Verma, Associate Professor, Room No. 182, Multistorey Building, Department of Physics and Astrophysics, University of Delhi, New Delhi-110007	Study of Fusion-Fission Dynamics in the mass region ~200 through Evaporation Residue (ER) and ER gated spin distribution measurement.

### BTR-3: UFR Proposals

S No	PI Name Affiliation	Title
44	Dr. P. Kathirvel Assistant Professor, Department of Physics, PSG College of Technology, Peelamedu, Coimbatore-641004	Exploiting ion irradiation effect on Gallium Oxide thin films for Photodetector Applications.
45	Dr. Ashvini D. Joshi Assistant Professor, Department of Nanoscience and Advanced Materials, Saurashtra University	Field effect studies on monovalent doped manganites for device applications: Electronic excitations through Irradiation.

S No	PI Name Affiliation	Title
46	Dr. Rajajeyaganthan Ramanathan Assistant Professor, Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil, Virudhunagar Dt	Swift heavy ion induced Gallate- based NIR phosphors to improve photoluminescence properties.
47	Dr. Khalid Sultan Assistant Professor (H.O.D), Department of Physics, Central University of Kashmir	Investigation of irradiation induced modifications in thin films of RFe <sub>1-x</sub> MnxO <sub>3</sub> system (R= rare earth).
48	Dr. Utpal Ghosh Associate Professor, Deptt. Biochem. & Biophy., University of Kalyani, Chandannagar	Study of metastatic potential of p53 mutant human lung cancer cells H1299 irradiated with carbon ion.
49	Dr. Pravanjan Mallick Assistant Professor of Physics, Department of Physics, Maharaja Sriram Chandra Bhanja Deo University, Takatpur, Baripada-757003, Odisha	Swift heavy ion irradiation induced emergence of properties of ZnO nanoparticles embedded in PVA matrix for flexible devices.
50	Dr. N. R. Nisha Assistant Professor, Cochin University of Science and Technology, Dept. of Marine Geology and Geophysics, Cochin University of Science and Technology	Oxygen minimum zone variability in the Eastern Arabian Sea during the late glacial - holocene period: Multiproxy approach.
51	Dr. Arul Varman Kesavan Assistant Professor, 102 Reddiyur (Village), SRM Institute of Science and Technology(SRMIST), Kattankulathur	Perovskite-ion interaction: For optoelectronic device applications.
52	Dr. Pramod Kumar Assistant Professor, Department of Physics, St. John's College, M.G. Road, Agra-282002	Tailoring of the SrTiO <sub>3</sub> and KTaO <sub>3</sub> substrate based oxide hetero-structures by using low energy ion irradiation and Ion Implantation.
53	Prof. Balaprasad Ankamwar Dept. of Chemistry, Savitribai Phule Pune University, Ganeshkhind, Pune-411007 Maharashtra	Ion beam irradiation induced Gold and Silver nanomaterials as sers substrate for chemical and biological sensing.
54	Dr. Pawan Kumar Assistant Professor, Department of Geography, Faculty of Physical Sciences, , Chaudhary Bansi Lal University, Bhiwani, Haryana -127021	Holocene glacial dynamics in the Upper Bhagirathi Basin of NW Garhwal Himalaya.
55	Dr. Khadke Udaykumar Associate Professor, Vijayanagara Sri Krishnadevaraya University, Ballari Karnataka State , Jnana Sagara Campus, Vinayaka Nagar, Cantonment, Ballari, Karnataka	Ion beam induced ionic conductivity of PVDF based separators for the energy storage device.
56	Prof. Shakil Ahmad Romshoo Dean Research, Department of Earth Sciences, University of Kashmir, Srinagar, Kashmir-190006	Estimation of last glacial maximum in Kolahoi Valley using Cosmogenic Radioneulide Dating.
57	Dr. Nisha Verma Assistant Professor, Material Research Center, Malaviya National Institute of Technology(MNIT)	Phase stability of immiscible systems under irradiation- a case study for Cu-Ta alloy.

S No	PI Name Affiliation	Title
58	Dr. Raunak Kumar Tamrakar Assistant Professor, Department of Applied Physics, Bhilai Institute of Technology, Near Bhilai House, Durg	Ion-beam induced luminescence and optical response measurement for rare earth doped Gd <sub>2</sub> O <sub>3</sub> phosphor.
59	Dr. S. Dinakaran Assistant Professor, Department of Physics, St. Joseph's College (Autonomous), College Road, Tiruchirappalli, Tamil Nadu	Phosphate based thermoluminescent phosphors for dosimetry applications.
60	Dr. Sandeep Kumar Assistant Professor, Central University of Rajasthan, Bandarsindri, Ajmer, Rajasthan	Study of resistive switching mechanism in ion irradiated ZnO nanorods.

#### BTR-4: Ongoing Proposals

S No	PI Name Affiliation	Title
61	Dr. Rakesh Kumar Pandey, Scientist E, Solid State Physics Lab., DRDO Delhi, New Delhi-110011	To investigate the doping and magnetic properties of S, Si, Be, Ni, Co and Fe ions in epitaxial GaSb.

#### BTR-5: LOW ENERGY ION BEAM FACILITY

S No	PI Name Affiliation	Title
62	Dr. Indra Sulania Scientist, IUAC, New Delhi-110067	Nanopatterning on Si and Ge with 100keV Ar, Kr and Xe beams: Fluence and Mass Dependent Study.
63	Dr. Rahul Singhal Asst. Prof. & Head, Department of Physics, MNIT Jaipur, JLN Marg, Malviya Nagar, Jaipur- 302017 (Rajasthan)	Low energy ion irradiation studies in shape memory alloys.
64	Dr. K. J. Sankaran Senior Scientist, CSIR-Institute of Minerals and Materials Technology, IMMT Colony, Bhubaneswar-751013	Microstructural effect on the enhancement of electrical and optical properties of Diamond Films by Transition Metal-Ion Implantation.
65	Dr. Abhijit Majumdar Assistant Professor, Dept. of Physics, IEST, Shibpur, Howrah-711103	Fragmentation dynamics of halomethanes investigated by highly charged ion.

<b>S No</b>	<b>PI Name Affiliation</b>	<b>Title</b>
66	Dr. Sanju Rani Assistant Professor, SRMIST, SRMIST Ramapuram Campus	Surface modification and defect engineering of WO <sub>3</sub> thin films through inert ion irradiation.
67	Prof. Jiban Jyoti Das Cotton University, Panbazar, Guwahati-1	Attempting to verify our hypothesis to discover new time scale for PIMS.