

Details of approval like Runs/Shifts/Samples/UFR Funds/BTA etc. will be communicated by post. User can also refer to their dashboard for details.

AUC-74 APPROVED PROPOSALS

<u>AUC ID</u>	<u>PI NAME & AFFILIATION</u>	<u>TITLE</u>	<u>UFR STATUS</u>
74102	Dr. Naveen Gandhi, Indian Institute of Tropical Meteorology, Pune.	Assessing the Miyake events and bomb pulse 14C using the speleothems.	-
74103	Dr. Debasis Mitra, University of Kalyani.	Mean charge state determination of the projectile ions inside the solid target through the measurement of ionization cross section.	-
74104	Dr. Dinesh Negi, Manipal Institute of Technology, Manipal.	Investigation of Octupole correlations in 69Ge.	-
74105	Dr. B N Pandey, RB&HSD, Bhabha Atomic Research Centre, Mumbai.	Effect of carbon and oxygen ions on GJIC in normal and cancer cells with relevance to mechanism of radio-resistance.	-
74109	Dr. Rajat Sanyal, Department of Archaeology, University of Calcutta.	Absolute dating of archaeological samples from Late Holocene western uplands (Sijua and Barind) of West Bengal.	-
74110	Prof. Anil K Gupta, Indian Institute of Technology Kharagpur.	Study of northern Indian lake deposits to infer paleoclimatic history of Indian summer monsoon and its global implications.	-
74111	Dr. Narendra Kumar Meena, Wadia Institute of Himalayan Geology, Dehradun.	Reconstruction of paleoclimatic records from Kashmir valley using lake and meadows peat sediments.	-
74112	Dr. S. Appannababu, Andhra University.	Elastic and inelastic scattering for the reaction $10B + 90Zr$.	-
74114	Dr. Ravi Kumar Kunchala, Centre for Atmospheric Science, IIT Delhi.	Understanding biospheric CO2 flux at Sonipat site located in Indo Gangetic Plane (IGP) using atmospheric radiocarbon measurements.	-
74115	Dr. Dhruv Kumar, UPES Dehradun.	Understanding the effect of induced cytotoxic of radiation on cancer cells treated with Gold-nanoparticle attached with anti- cancer drug.	-
74117	Dr. Nutan Sharma, Vivekananda Global University, Jaipur.	Effect of SHI Induced defects and structural modification of MXene and their composites for biosensing applications.	-
74118	Dr. Ambuj Tripathi, Inter-University Accelerator Centre.	Determination of Radiation Induced Single Event Upset in SRAM based FPGA for severe Accident Monitoring Systems of Fast Breeder Reactor.	-

74119	Prof. Dalip Singh Mehta, Department of Physics, IIT Delhi.	Evaluation of Efficacy of High LET Carbon Ion Beam in Combination with Various Sensitizing/Cytotoxic Agents delivered with Nanocarrier to Enhance Apoptosis in Breast Cancer Cells.	-
74121	Dr. Aditya Sarkar, Presidency University, Kolkata.	Dating & delineation of water pollution sources in parts of suburban South Kolkata vis-à-vis groundwater- surface water interactions.	-
74123	Dr. Firoz Badesab, CSIR-National Institute of Oceanography, Goa.	Elucidating the controls on sedimentary evolution of Andaman Sea using magnetic methods.	-
74202	Mr. Abdul Adil Paray C/o. Dr. Manoj Kumar, AIHC & Archaeology, IGNTU, Amarkantak MP.	Chronology of Neolithic Pottery of Kashmir-A Radio Carbon Dating Approach.	-
74203	Ms. Upasna Chettri C/o. Prof. Sukanya Sharma, Dept of HSS, IIT Guwahati.	Oral Traditions of the Lepchas: An Archaeological enquiry in Sikkim.	-
74204	Mr. Bharat Kharpuse C/o. Dr. Buddhadev Mukherjee, Visva-Bharati, Santiniketan.	Spectroscopy and lifetime measurement of excited states in ^{66}Zn AND ^{66}Ga .	-
74205	Mr. Sohan Kumar C/o. Prof. Pradeep Srivastava, Indian Institute of Technology, Roorkee.	Metagenomics based chemolithotrophic microbial profile and rock weathering processes in diverse climate-tectonic spectrum of Garhwal Himalaya.	-
74206	Mr. Topeswar Meher C/o. Dr. Shiv Poojan Patel, Guru Ghasidas Vishwavidyalaya.	Crystallization of amorphous semiconductors thin film under ion irradiation.	-
74207	Mr. Rupak Samadder C/o. Dr. Tarun Kumar Dalai, IISER Kolkata.	Elemental and Isotopic investigation of the Ganga (Hooghly) River lower basin and its estuary: cycling and transport of petrogenic carbon, REEs and Sr isotopes.	-
74208	Ms. Sumana Ghosh C/o. Dr. Debasis Mitra, University of Kalyani.	Study of inner-shell ionisation induced by heavy ions.	-
74209	Ms. Riya Dawn C/o. Dr. Vijay Raj Singh, Central University of South Bihar.	Ion Beam Induced Metal to Insulator Transition and Identifying the Structural, Electronic and Transport Disorder of Vanadium Oxides.	-
74210	Ms. Aradhana Kumari C/o. Dr. Vijay Raj Singh, Central University of South Bihar.	Effect of Ion Implantation and Irradiation on AB_2O_4 Type Spinel Oxides.	-

74211	Mr. Ganga Sagar Bhagat C/o. Dr. Rakesh Saini, Dr Harisingh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh.	Reconstruction of style and timing of the glacial fluctuation in the Chandra-Bhaga Basin, Lahaul Himalaya.	-
74212	Ms. Sayali Sudhir Gadre C/o. Prof. Anant Pandey, Sri Venkateswara College, University of Delhi.	To study the energy and LET dependence of TL materials for ion beams used in cancer therapy.	-
74213	Mr. Biswajit Palar C/o. Prof. Anil Kumar Gupta, IIT Kharagpur.	Lake records from Northern and Eastern India and model runs to understand monsoon variability during the last millennium.	-
74214	Mr. Rajarshi Dasgupta C/o. Dr. Priyank Pravin Patel, Presidency University.	Late Quaternary Landscape Denudation in the Lateritic Badlands of Garbeta, West Bengal.	-
74216	Mr. Sramana Biswas C/o. Dr. Buddhadev Mukherjee, Associate Professor, Visva-Bharati University.	Searching for octupole correlation in ^{68}Zn and ^{70}Ge and its trends in surrounding isotopes.	-
74218	Mr. Nitin Kadam C/o. Dr. Firoz Badesab, Geological Oceanography Division, CSIR National Institute of Oceanography Goa.	Tracing of sediment source-to-sink processes using magnetic mineral approach.	-
74219	Mr. Shubham Sahu C/o. Dr. Rakesh Saini, Dr Harisingh Gour Vishwavidyalaya (A Central University), Sagar, Madhya Pradesh.	Reconstructions of Palaeo and Present Glacial Fluctuations in the Zanskar Basin through Landform Interpretation.	-
74221	Ms. Priyanka Kumari C/o. Dr. Rohit Ranjan Shahi, Central University of South Bihar, Gaya.	Studies on Design, Development and Magnetic Properties of TiFeNiCo- Based Multi- Principal High Entropy Alloys.	-
74222	Mr. Aakanksha Kumari C/o. Dr. Yama Dixit, Center for Atmospheric Sciences, Indian Institute of Technology (IIT) Delhi, India .	Indian summer monsoon variability during the past ten thousand years.	-
74223	Mr. Abhijeet Santra C/o. Prof. Anil Kumar Gupta, IIT Kharagpur.	Multi-proxy analysis of sediments from Chilika lake.	-

74224	Mr. Nazakat Ali C/o. Dr. Biswajeet Thakur, Birbal Sahni Institute of Palaeosciences.	Weathering processes, Provenance character and climatic manifestations during the late Quaternary from Central Ganga Plain, India.	-
74225	Mr. Anirban Basak C/o. Dr. Anagha Chakraborty, Visva-Bharati University.	Search for coexistence of different shapes and excitation mechanisms in transitional nuclei.	-
74226	Mr. Mohd Ikram C/o. Dr. Anjali Trivedi, Birbal Sahni Institute of Palaeoscience.	Reconstruction of vegetation succession, climate change and human habitation imprints on lacustrine system in the Ganga plain during Holocene-Pleistocene period.	-
74227	Ms. Poorvi Narayana Pitta C/o. Prof. Javed N Malik, IIT Kanpur.	Tectono-geomorphic studies along Taksal Fault, Northwestern Himalaya.	-
74228	Ms. Madhurima Paul C/o. Prof. Anil Kumar Gupta, Indian Institute of Technology - Kharagpur.	Paleomonsoonal shifts in the Lower Ganga Plain in the late Holocene: A multi-proxy study using lake sediments.	-
74229	Ms. Arpita Parhi C/o. Prof. Anil Kumar Gupta, Indian Institute of Technology, Kharagpur.	Continental records of paleoclimate variability from Indian subcontinent during the Holocene.	-
74231	Ms. Varsha KV C/o. Dr. E. Prasad, Central university of Kerala.	Fusion and transfer studies in the $^{28}\text{Si}+^{124,126}\text{Te}$ reactions at energies around the Coulomb barrier.	-
74232	Mr. Ramesharavind P C/o. Dr. K. Balasubramani, Central University of Tamil Nadu.	Modelling Landscape dynamics of Cauvery delta.	-
74233	Ms. Gonika C/o. Prof. Ashok Kumar, Panjab University, Chandigarh.	Study of reaction dynamics around the Coulomb barrier using a recoil separator.	-
74234	Mr. Yashraj C/o. Prof. Bivash Ranjan Behera, Panjab University, Chandigarh.	Investigation of the structural properties of nuclei in $A \sim 70$ mass region.	-
74235	Mr. Madhan Raj K C/o. Dr. K. Balasubramani, Central University of Tamil Nadu.	Study of sediment influx in core sediments of Vettar river. Insight for energy dynamics in fluvial process.	-
74238	Mr. Gobind Ram C/o. Prof. Manoj Kumar Sharma, University of Lucknow, Lunknow.	Disentangling the role of different entrance channels on the transfer reaction mechanism.	-

74239	Ms. Simranjeet Kaur C/o. Dr. Kaushik Sen, Indian Institute of Technology Delhi.	Swift heavy ion beam as a probe for modifying the microstructure the NiO thin film.	-
74240	Ms. Manjubashini D C/o. Dr. B. Subramanian, Electroplating and Metal Finishing Division, AcSIR, CSIR-Central Electrochemical Research Institute, Karaikudi.	Beyond Conventional Biosensing: Harnessing Ion Irradiation to Enhance the Electrochemical Activity of Metal Sulfide/Metal Oxide Thin Films for Biosensing Applications.	-
74241	Ms. Baby Sri Pratha G C/o. Dr. Jeyanthinath Mayandi, Madurai Kamaraj University.	Investigation on Transition metal Sulphides based Nanocomposites for Energy Storage Application.	-
74302	Prof. Jyoti Rajput, University of Delhi.	Exploring molecular growth in ion-molecule interactions at low (<150 eV) centre-of-mass energies.	UFR Approved
74303	Dr. Vibha Chopra, DAV College, Katra Sher Singh, Amritsar.	Carbon and Proton ion beam dosimetry of energy independent thermoluminescent phosphors.	UFR Approved
74306	Dr. B. Sivasankari, The Standard Fireworks Rajaratnam College for Women (Autonomous), Sivakasi.	Ion beam irradiation effects on L-malic acid and Guanidine carbonate based NLO crystals.	UFR Approved
74307	Dr. Pragati Kumar, Central University of Jammu.	SHI effect on photosensing properties of doped II-VI metal sulfides thin films.	UFR Approved
74308	Prof. Shaon Ray Chaudhuri, Tripura University.	Understanding the efficacy of hexamine removal from simulated sewage water by low ionizing radiation exposed Micromonospora citrea SRCHD01 and Micrococcus luteus SRCHD02.	UFR Approved
74309	Dr. Keval Jayantilal Gadani, Indian Institute of Teacher Education (IITE), Ramkrushna Paramhans Vidya Sankul, Gandhinagar, (Gujarat).	Tailoring Transport and Thermoelectric Properties of Rare-Earth Doped CaMnO ₃ Thin Film.	UFR Not Approved
74313	Prof. Ranjana Jha, Netaji Subhas University of Technology, Dwarka, Delhi.	Study of ion irradiation-induced disorder in nuclear ceramics for immobilization of radionuclides waste.	UFR Not Approved
74314	Dr. Radha Perumal Ramasamy, Anna University Chennai.	Neutron scattering and Dielectric spectroscopy analysis of ion beam irradiated graphene polymer nanocomposites.	UFR Not Approved
74315	Prof. Narendra Kumar Pandey, University of Lucknow.	Development of ion irradiated modified MOS based devices via SHI and Low energy ion beams for H ₂ gas sensing applications.	UFR Not Approved

74316	Dr. Sunitha D V, REVA University, Rukmini Knowledge park, Yelahanka, Bangalore.	Investigating the effect of Swift heavy ion irradiation on rare earth metal oxide polymer Composite: A study of its structural, optical, and electrical properties.	UFR Not Approved
74317	Dr. Ankush Vij, Central University of Haryana, Mahendergarh.	Swift heavy ions induced modifications in structural and luminescence properties of hafnia-based nanocrystals.	UFR Not Approved
74319	Dr. Chandra Shekhar Pati Tripathi, Banaras Hindu University, Varanasi, (U.P.).	Ion Beam Irradiation-Induced Modifications in Metal Nanoparticle-Decorated Tungsten Oxide Nanostructures for Improved Electrochromic Performance.	UFR Not Approved
74320	Dr. Sagar Sen, Maharaja Bhoj Govt PG College Dhar, (M.P.) Indore.	Tuning perpendicular magnetic anisotropy by swift heavy ion irradiation in Cobalt ferrite thin film for spintronics applications.	UFR Approved
74322	Dr. S. Srinivasan, Presidency College.	Structural, optical, magnetic and electrical properties of Aluminium and Copper ion irradiated ZnO/PVP nanocomposite.	UFR Not Approved
74324	Dr. T. Logu, G.T.N. Arts College.	Chrome Tanning Pollutant Driven Intermediate Bandgap Solar Fuel Cells (CTIBS) with Ion Beams.	UFR Not Approved
74330	Dr. Raja Nisar Ali, Central University of Kashmir.	Systematic Study of Low Energy Break-up Fusion Reactions.	UFR Approved
74331	Dr. E Prasad, Central University of Kerala.	Quasi-elastic scattering studies in the $^{30}\text{Si}+^{142,150}\text{Nd}$ reactions at energies around the Coulomb barrier.	UFR Approved
74332	Dr. Yana Bagbi, University of Delhi.	Effects of ion radiation on engineered magnetic bamboo activated carbon for water treatment.	UFR Not Approved
74333	Prof. Nandkumar Tukaram Mandlik, Fergusson College (Autonomous) Pune.	TL/OSL Study of Micro- and Nanophosphors for Dosimetry of Ion Beams.	UFR Approved
74501	Dr. Dr. B. Sivasankari, The Standard Fireworks Rajaratnam College for Women (Autonomous), Sivakasi.	Ion beam irradiation effects on L-malic acid and Guanidine carbonate based NLO crystals.	-
74503	Dr. Shiv Poojan Patel, Guru Ghasidas Vishwavidyalaya(GGV), Koni, Bilaspur, (C.G.).	Crystallization of Amorphous Semiconductors thin film under ion irradiation.	-
74506	Prof. Anant Pandey, Sri Venkateswara College, University of Delhi.	The study of the effect of low energy ion beams on some TLD materials.	-
74507	Prof. Jyoti Rajput, University of Delhi.	Exploring molecular growth in ion-molecule interactions at low (<150 eV) centre-of-mass energies.	-

74508	Dr. Debasish Datta, Presidency University, Kolkata.	High Entropy Alloys : Role of ion irradiation on their fabrication process, structures and properties.	-
74511	Dr. B. Subramanian, CSIR-Central Electrochemical Research Institute, Sivaganga,Tamilnadu.	Influence of Ca, C, N and Ag into 3D printed Ti and Ti alloys with Thin Film Metallic Glasses for bio implants.	-
74513	Dr. B. Subramanian, CSIR-Central Electrochemical Research Institute, Sivaganga,Tamilnadu.	Beyond Conventional Biosensing: Harnessing Ion Irradiation to Enhance the Electrochemical Activity of Metal Sulfide/Metal Oxide Thin Films for Biosensing Applications.	-
74514	Dr. Arup Samanta, IIT Roorkee.	Transition metal implantation in silicon nanowires for spintronics application.	-
74515	Mr. Umapathy , IIT Delhi, New Delhi.	Ion Irradiation Understanding Er(x)SiC(1-x) for advanced fuel technology.	-
74516	Mr. Naveenkumar K R, University of Petroleum & Energy Studies Dehradun.	Ion beam induced modification in ZnS/ZnSe and ZnO/ZnS bilayer thin film for optoelectronic applications.	-