

Details of Ongoing R & D Projects

S. No.	Name of the Project/Endowments, Chairs	Name of the Principal Investigator	Department of Principal Investigator	Funds granted (In Lakhs)	Duration of the project	Funding Agency	Project Status
1.	Pandit Deen Dayal Upadhyay Shodhpeeth	VBS Purvanchal University	VBS Purvanchal University	50.00	2018-	Government of Uttar Pradesh	Ongoing
2.	Title: Identification of pathways involving Bcl-2 family of proteins: A network biology approach Scheme: TARE	Dr. Manish Gupta	Biotechnology	18.3	2019-2022	DST-SERB, New Delhi	Ongoing
3.	Title: Geomorphological and sedimentation history of the Sai River, Ganga Plain, India Scheme: UGC Start-up Grant	Dr. Shyam Kanhaiya	Earth and Planetary Sciences, Rajju Bhaiya Institute	10.00	2020-2022	UGC, New Delhi	Ongoing
4.	Title: Designing and simulation of Photonic metals for data storage from specific classes of nano and organic derivatives Scheme: Core Research Grant	Dr. Ajeet Singh	Chemistry, Rajju Bhaiya Institute	53.614	2020-2022	DST-SERB, New Delhi	Ongoing
5.	Title: Synthesis and Characterization of Lead (Pb) free Perovskite Materials for Solar cell devices Scheme: R & D Project	Dr. Dharendra Kumar Chaudhary	Centre for Renewable Energy, Rajju Bhaiya Institute	11.44	2021-2024	Council of Science and Technology, UP	Ongoing

6.	Title: Investigations on Ion migration driven degradation in Perovskite solar cell devices Scheme: Collaborative R & D Project	Dr. Dharendra Kumar Chaudhary	Centre for Renewable Energy, Institute, Rajju Baiya	2.2644 (for Year 2021-22)	2021-2024	UGC-DAE-CSR, Indore	Ongoing
7.	Title: Happiness among adolescents: the role of sociodemographic factors, optimism, volunteerism and religiosity Scheme: R & D Project	Dr. Ajai Pratap Singh	Applied Psychology	1.84	2021-2023	Department of Higher Education, Govt. of Uttar Pradesh	Ongoing
8.	Title: Investigations on thermoelectric properties of metal doped ZnO nanostructures and their nanocomposites Scheme: R & D Project	Dr. Giridhar Mishra	Physics, Institute, Rajju Baiya	3.745	2021-2023	Department of Higher Education, Govt. of Uttar Pradesh	Ongoing
9.	Title: Molecular screening of vitamin D receptor polymorphisms (FokI and BsmI) and Bone mineral density in rural population of eastern Uttar Pradesh Scheme: R & D Project	Prof. Vandana Rai	Biotechnology	5.66	2021-2023	Department of Higher Education, Govt. of Uttar Pradesh	Ongoing
10.	Title: Synthesis, characterization and evaluation of biological activities of noble Isoxazole(s) derivatives from sugar Scheme: R & D Project	Dr. Amrendra Kumar Singh	Chemistry, UNSIET	4.015	2021-2023	Department of Higher Education, Govt. of Uttar Pradesh	Ongoing
11.	Title: Understanding delinking of Yamuna-Saraswati nexus in Late Quaternary and its influence on habitats and civilizations in the Indo-Gangetic plain: a geochemical approach	Dr. Neeraj Awasthi	Earth and Planetary Sciences, Institute, Rajju Baiya	10	2022-2024	UGC, New Delhi	Ongoing

	Scheme: UGC Start-up Grant						
12.	Title: Molecular Modeling and Simulation of Metal and Metal-Free Organic Catalysts for Hydrogen Production via Water Splitting and Amine Reforming of Methanol Scheme: UGC Start-up Grant	Dr.Ajeet Singh	Chemistry, RajjuBhaiya Institute	10	2022- 2024	UGC, New Delhi	Ongoing
13.	Title: Development of molecular catalysts for CO ₂ reduction Scheme: UGC Start-up Grant	Dr.NiteshJaiswal	Chemistry, RajjuBhaiya Institute	10	2022- 2024	UGC, New Delhi	Ongoing
14.	Title: Natural biopolymer based nanocomposite thin films for packing Scheme: UGC Start-up Grant	Dr.MithileshYadav	Chemistry, RajjuBhaiya Institute	10	2022- 2024	UGC, New Delhi	Ongoing
15.	Title: Investigation on structural behaviour of ionic liquids confined in 2D materials (h-BN, MoS ₂ , Ti ₃ C ₂ T _x) beyond graphene Scheme: UGC Start-up Grant	Dr. ManishPratapSingh	Physics, UNSIET	10	2022- 2024	UGC, New Delhi	Ongoing
16.	Title: Computational analysis for designing next-generation thermoelectric materials DFT treatment Scheme: UGC Start-up Grant	Dr.Alok Kumar Verma	Physics, RajjuBhaiya Institute	10	2022- 2024	UGC, New Delhi	Ongoing

17.	Title: Development in performance optimization of Quasi state flexible polymer silica nanostructure hybrid electrolytes for application in sodium ion rechargeable battery Scheme: UGC Start-up Grant	Dr.Sujeet Kumar Chaurasia	Centrefor Nanoscience and Technology, RajjuBhaiya Institute	10	2022- 2024	UGC, New Delhi	Ongoing
18.	Title: Variations of aerosol and particle particulate matter over Central is indo-gangetic plain understanding the effect of covid-19 lockdown on interaction between air pollution weather and climate Scheme: UGC Start-up Grant	Dr.Sarvan Kumar	Earthand Planetary Sciences, RajjuBhaiya Institute	10	2022- 2024	UGC, New Delhi	Ongoing
19.	Title: Tailoring the thermal conductivity of all-inorganic perovskite materials for thermoelectric devices Scheme: UGC Start-up Grant	Dr.Dhirendra Kumar Chaudhary	Centre for Renewab Energy, RajjuBhaiya Institute	10	2022- 2024	UGC, New Delhi	Ongoing
20.	Title: Development of high-performance electrocatalysts for hydrogen evolution reaction (HER) based on vanadium chalcogenide nanostructures Scheme: SERBStartupgrant	Dr.Kajal Kumar Dey	Centre forNanoscience & Technology, RajjuBhaiya Institute	26.32	2022-2024	DST-SERB, New Delhi	Ongoing
21.	Title: Nanocomposites of Graphene for reduction of Friction and wear Scheme: R & D Project	Dr. Dinesh Kumar Verma	Chemistry, RajjuBhaiya Institute	11.44	2022-2025	CouncilofScience andTechnology, Uttar Pradesh	Ongoing
22.	Title: Biobased edible film foractivefoodpackaging	Dr.MithileshYada v	Chemistry, RajjuBhaiya Institute	11.94	2022-2025	CouncilofScience andTechnology, Uttar Pradesh	Ongoing

	Scheme: R & D Project						
23.	Title: Development and characterization of flexible quasi-solid supercapacitors using ionic liquid based polymeric electrolytes and biomass derived mesoporous carbonaceous electrodes Scheme: R & D Project	Dr.Sujeet Kumar Chaurasia	Centre forNanoscience andtechnology, RajjuBhaiya Institute	11.44	2022-2025	CouncilofScience andTechnology, Uttar Pradesh	Ongoing
24.	Title: Modification of behavior of 2D materials induced by confinement of ionic liquids Scheme: TARE Grant	Dr. Manish Pratap Singh	Dept. of Physics(UNSIET)	18.30	2022-2025	DST-SERB, New Delhi	Ongoing
25.	Title: Synthesisandnon-destructivecharacterization of advancedfunctional nanomaterials forindustrial applications Scheme: R & D Project	Dr.Pramod Kumar Yadawa	Physics, RajjuBhaiyaInstitute	1.65	2022-2025	Department of Higher Education, Govt. of Uttar Pradesh	Ongoing
26.	Title: Complex and contact manifolds with different connections Scheme: R & D Project	Dr.Sushil Shukla	Mathematics(UNS IET)	1.65	2022-24	Department of Higher Education, Govt. of Uttar Pradesh	Ongoing
27.	Title: Conducting polymer and carbon nanostructures (CNT/graphene) composites for sensing of toxic gases and volatile organic compounds Scheme: R & D Project	Dr.Pramod Kumar	Chemistry, RajjuBhaiyaInstitute	2.541	2022-24	Department of Higher Education, Govt. of Uttar Pradesh	Ongoing
28.	Title: Design and Development of High Performance Organic Thermoelectric	Dr.Punit KumarDhawan	Physics, RajjuBhaiya	1.125	2022-24	Department of Higher Education, Govt. of	Ongoing

	Devices with PEDOT:PSS and their Nanocomposites Scheme: R & D Project		Institute			Uttar Pradesh	
--	--	--	-----------	--	--	---------------	--