

University Grants Commission, Nepal
UGC Collaborative Research Projects (Date: 01 January 2021 to 08 May 2023)

S.N	Title	Grants (NRs)	Institution	Cluster	Remarks
1	Community based Forest Management as a Climate Approach for the Forest Management in Hindu Kush Region	6.0 Millions	IOF, TU	Agriculture and forestry	Climate change and Environment
2	Introducing predictive maintenance of hydro-turbines through Real-time Condition Monitoring and Signature Investigations of Faults	9.0 Millions	School of Eng. KU	Eng	
3	Development of a Reversible Pump-Turbine for a Pumped-Storage Hydropower Projects in Nepal	9.0 Millions	School of Eng. KU	Eng	
4	Azolla derived Hierarchical zinc Oxide-activated Carbon Nanocomposite: from eco-environmental agro Product concern in Industrial Opportunity	6.0 Millions	IOE, TU	S&T	Climate change and Environment
5	Genome Editing of Local Rice Cultivar to Develop Blast Resistant Lines	7.5 Millions	Central Dept of Biotechnology, TU	S&T	
6	Metabolomic Study and Anticancer Effects of Natural Products	9.0 Millions	Central Dept of Chemistry TU	S&T	
7	Isolation and Characterization of Novel Antibiotic Natural Molecules from the High-altitude soil Actinomycetes against Multidrug Resistant Human Pathogenic Bacteria	9.0 Millions	Central Dept of Botany, TU	S&T	Climate change and Environment
8	Improving Quality of Traditional Handmade Lokta Paper for Next Generation Applications	9.0 Millions	Central Dept of Chemistry TU	S&T	
9	Baseline Survey on Human-Bat Interfaces and Molecular Detection of Viruses from Nepalese Bats	3.7 Millions	Faculty of Science, MWU	S&T	
10	Molecular Epidemiology of Acute undifferentiated Febrile illness and Transmission Dynamics of Leptospirosis in Nepal	9.0 Millions	Central Department of Microbiology, TU	S&T	
11	Application of Waste water based Surveillance of Vaccine Preventable Viral Disease for Public Health Information	6.0 Millions	Central Department of Microbiology, TU	S&T	Climate change and Environment
12	Influence of Calcareous Soil Bacteria on Biocementation based Soil Stability	2 Millions	Department of Civil Engineering, Pulchowk Campus	S&T	
13	Porous Concrete and its application to the Pavement system to mitigate the high Urban Runoff Complication	2 Millions	School of Eng. KU	Eng	

14	Heat Wave of Past and Future: its impact on Human Health and its Mitigation Measures for Urban Setting of Tropical Region of Nepal	2 Millions	Department of Environmental Engineering, School of Sciences, Kathmandu University	Eng	Climate change and Environment
15	Development of Smart Energy Management and Control System Using Internet of Things (IoT)	2 Millions	Department of Electrical and Electronics Engineering, School of Engineering	Eng	
16	Development, Validation and Evaluation of a Collaborative Educational Intervention Program on Rational Antimicrobial Use and Compliance in Selected Urban Areas of Lalitpur District	2 Millions	Department of Clinical Pharmacology and Therapeutics, Kist Medical College and Teaching Hospital	Health sciences	
17	Assess the Effectiveness of School-Based Suicide Prevention Strategy on Suicidal Ideation and Suicide Risk Behaviours among Adolescents	2 Millions	School of Health and Allied Sciences, PoKU	Health sciences	
18	Real Time Fine-Scale Assignments and Bioremediation of Bagmati River Water Pollution	2 Millions	Central Department of Chemistry, Tribhuvan University	S&T	Climate change and Environment
19	Improving Utilization of Abandoned lands through Fodder Cultivation in Nepal	2 Millions	Faculty of Animal Science, Veterinary Science and Fisheries, Agriculture & Forestry University	Ag.F	Climate change and Environment
20	Design, Synthesis, and Characterization of Magnetic Topological Insulators for Energy Efficient Devices	2 Millions	Central Department of Physics, Tribhuvan University	S&T	
21	Bacteria and Fungal infections in Hospitalized patients with Coronavirus Disease	2 Millions	Central Department of Microbiology, Tribhuvan University	S&T	
22	Immuno-genomic Surviellance of Seasonal Hyperacute Panuveitis(SHAPU)	2 Millions	Department of Pharmacology, School of Medical Sciences, Kathmandu University	Health sciences	
23	Chemical Profiling and In-Vitro Anticholinesterase activities of selected Medicinal Plants for Identification of Potential Therapeutic Agents Against Alzheimer's Disease	2 Millions	School of Engineering, Kathmandu University	S&T	Climate change and Environment
24	Assessing Green Energy Growth in Nepal with a Hydropower-hydrogen Integrated Power Grid Model	2 Millions	Thapathali Campus, IOE, Tribhuvan University	Eng	
25	Context, Issues, and Solutions towards 5G Network Migration of Nepal (CISNetMIN)	2 Millions	Department of Electronics and Computer Engineering, IOE, Tribhuvan University	Eng	