

UTTARAKHAND STATE COUNCIL FOR SCIENCE & TECHNOLOGY
DEPARTMENT OF INFORMATION, SCIENCE AND TECHNOLOGY
GOVERNMENT OF UTTARAKHAND
VIGYAN DHAM, Jhajra, Dehradun
Website :www.ucost.in

U-COST Sponsored R&D Projects : 2020-2021

SINo	P.I. name & Address	Project title	Amount Sanctioned (in Rs)
1	Dr Pankaj Kandwal Additional Professor Department of Orthopedics All India Institute of Medical Sciences (AIIMS) Rishikesh Dehradun (UK) Email: pankajkandwal27@gmail.com Mob: 8475000282	Role of multimodal, interdisciplinary, patient centered and pragmatic model to provide enhanced optimal perioperative care for patients undergoing spinal surgeries	3,75,000
2	Prof Satya Vati Rana Department of Biochemistry All India Institute of Medical Sciences (AIIMS) Rishikesh Dehradun (UK) Email: svrana25@hotmail.com Mob: 9876139933	To study small intestinal bacterial overgrowth, lactose, fructose intolerance and H. Pylori infection in dyspepsia patients in tertiary hospital of Uttarakhand	4,33,750
3	Prof (Dr) Garima Mittal Department of Microbiology Himalayan Institute of Medical Sciences Swami Ram Himalayan University Swami Ram Nagar, Jolly Grant Dehradun (UK) Email: garimamittal180@gmail.com Mob: 9759075607	A cross-sectional study employing survey (questionnaire) and diagnostic (microbiological) methods to find out the prevalence of Sexually Transmitted Disease (STD) and Reproductive Tract Infection (RTI) amongst sexually active group (both male and female) of Doiwala block in district Dehradun	6,04,100

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4	Dr Vasantha Kalyani Assistant Professor College of Nursing All India Institute of Medical Sciences Rishikesh Dehradun (UK) Email: garimamittal80@gmail.com Mob: 9759075607	A randomized control trial to assess the effectiveness of palliative care bundle versus routine palliative care on functional recovery, resilience and quality of life among advanced gall bladder cancer patients at AIIMS, Rishikesh	1,66,500
5	Dr Ravi Kant Associate Professor and Head Division of diabetes and Metabolism Department of Medicine All India Institute of Medical Sciences (AIIMS) Rishikesh Dehradun (UK) Email: ravi.med@aiimsrishikesh.edu.in Mob: 9870717859	Efficacy, feasibility and acceptability of continuous glucose monitoring system in comparison to Glucometer based approach in diabetic patients on Insulin therapy in hilly areas of Uttarakhand State	4,10,000
6	Dr Amit Kumar Dhiman Associate Professor Center of Excellence in Disaster Mitigation and Management/ Chemical Engineering Indian Institute of Technology Roorkee Roorkee-247667 Haridwar (UK) Email: amitdfch@iitr.ac.in; dhimuamit@rediffmail.com Mob: 9410329605; 9105144555	Computational fluid dynamics studies on streamlined/ non-streamlined lips of a sluice gate: lip selection and flow structures	6,90,400

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7	Dr Sarla Saklani Assistant Professor Department of Pharmaceutical Chemistry Chauras campus H.N.B. Garhwal University (A Central University) Srinagar (Garhwal)-246174 (UK) Email: sarlasaklani5@gmail.com Mob: 9456155255	Extraction of Essential Oils from Wild Aromatic Plants of Uttarakhand Himalaya: Chemical Composition, Anti-oxidant & Antimicrobial Potential	5,57,000
8	Prof R.P.S. Gangwar Director Electronics & Communication Engineering Women Institute of Technology (WIT) Sudhowala PO- Chandan Wadi Prem Nagar-248007 (UK) Email: profrpsgangwar@yahoo.co.in Mob: 9412987009	Physical layer security performance analysis of Cognitive Radio Systems in the presence of Imperfect Channel State Information (CSI)	3,75,000
9	Dr Sarama Saha Assistant Professor Department of Biochemistry All India Institute of Medical Sciences (AIIMS) Rishikesh Dehradun (UK) Email: saramasaha@yahoo.co.in Mob: 7055650111	To investigate gene expression and association between Wnt signaling inhibitor, sclerostin and insulin resistance in individuals with prediabetes and type-2 diabetes mellitus in populations of Uttarakhand	3,67,000

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10	Dr Sanjeev Kumar Assistant Professor Hydro and Renewable Energy (HRED) Indian Institute of Technology Roorkee Roorkee Haridwar (UK) Email: sanjukec@hre.iitr.ac.in; sanjukec@gmail.com Mob: 7428640872	Development of microalgal biofilm reactor coupled constructed wetland (MBR-CW) system for decentralized waste water treatment	2,81,900
11	Dr Hemwati Nandan Assistant Professor Department of Physics Gurukula Kangri (deemed to be University) Haridwar (UK) Email: hnandan@associates.iucaa.in; hemwati.nandan.physics@gmail.com Mob: 7017907069	Statistical analysis of precipitation, temperature and cloud cover over north western Himalaya with special reference to Uttarakhand	2,24,000
12	Prof Naveen Kumar Navani Department of Biotechnology Indian Institute of Technology Roorkee Roorkee Haridwar (UK) Email: naveenbiochem@gmail.com; navinfbs@iitr.ac.in Mob: 7088275555, 9761473482	Characterization of a Herbo-mineral Ayurvedic preparation based on Rasa-Shastra - Special reference to Mahayogaraj guggulu	8,93,400
13	Prof Ashish Thapliyal Department of Biotechnology Graphic Era (Deemed to be University) 566/6, Bell Road, Clement Town Dehradun (UK) Email: drashishthapliyal@gmail.com Mob: 9557007632	Bio-prospecting and product development from <i>Curcuma longa</i> (turmeric) in Uttarakhand	10,83,000

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14	Dr Anil Kumar Sharma Professor and Director Extension Education Department of Biological Sciences G.B. Pant University of Agriculture & Technology Pantnagar US Nagar (UK) Email: anilksharma_99@yahoo.com Mob: 7500241561	Development of low cost photobioreactor for waste treatment using microalgae	3,00,400
15	Dr Prashant Singh Associate Professor Department of Chemistry DAV (PG) College Dehradun (UK) Email: prashantraj86@yahoo.com Mob: 9458150994	Water Quality in Uttarakhand: Graphic Books (Volumes 1 & 2)	5,94,950
16	Dr Chhavi Pant Pandey Scientist C Department of Geophysics Wadia Institute of Himalayan Geology GMS Road Dehradun (UK) Email: chhavi.pandey@gmail.com Mob: 9411319626, 7830477367	Black carbon personal exposure levels in different polluted micro-environments: A case study from Himalayan foothills	3,56,900

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17	Dr Manish Raturi Assistant Professor Immunohematology & Blood Transfusion Himalayan Institute of Medical Sciences Blood Bank, SRHU Swami Ram Nagar Doiwala Dehradun (UK) Email: manishraturi@srhu.edu.in Mob: 9897212766	Establishing a regional rare blood donor registry in Uttarakhand	8,10,200
18	Prof Renu Dhasmana Department of Ophthalmology Himalayan Institute of Medical Sciences Swami Rama Himalayan University Swami Ram Nagar Doiwala Dehradun (UK) Email: renudhasmana@gmail.com Mob: 9456333000	A cross-sectional study on Computer vision syndrome (CVS) amongst students, teachers of district Dehradun, Uttarakhand	2,13,250
19	Dr S.K. Gupta Associate Professor Department of Mathematics Indian Institute of Technology Roorkee Roorkee Haridwar (UK) Email: skgiitr@gmail.com Mob: 7579079081, 6397187646	Formulation and developing solution methodologies of various optimization models under uncertainty with applications in environmental managements	80,500

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20	Dr Jabrinder Singh Assistant Professor Department of Chemistry DIT University Diversion Road, Makkawala Greens Dehradun (UK) Email: drjabrinder.singh@dituniversity.edu.in Mob: 9812428464	Appraisal of environmental streamflow of Rispana with reference to spatio-temporal variation of water quality index and catchment potential	4,04,000
21	Dr Amit Gupta Additional Professor Department of General Surgery All India Institute of Medical Sciences Rishikesh Dehradun (UK) Email: dramit2411@yahoo.co.in; dramit2411@gmail.com Mob: 9891981331	Study of expression of molecular markers by Quantitative Real time Polymerase Chain Reaction (RT-Qpcr) and their correlation with risk stratification in patients of carcinoma prostate	4,53,000
22	Dr Richa Chauhan Assistant Professor Department of Botany Chaman Lal Mahavidyalaya Landhaura Haridwar (UK) Email: richachauhanclm@gmail.com Mob: 8869033804	<i>In vitro</i> Conservation of rare and endangered plant species of Orchideacea family in Uttarakhand western Himalayan region	2,54,000

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23	Dr Manu Malhotra Additional Professor Department of Otorhinolaryngology All India Institute of Medical Sciences (AIIMS) Rishikesh Dehradun (UK) Email: manumalhotrallrm@gmail.com Mob: 9358826345	Uttarakhand Deaf-mutism registry with Multi-centric Descriptive-Exploratory study to find out pre-, peri- and post-natal risk factors and causes of delay in treatment of deafmutism in patients visiting tertiary care of Uttarakhand	3,77,250
24	Dr Ramna Tripathi Assistant Professor Department of Applied Science THDC Institute of Hydropower Engineering and Technology Tehri (UK) Email: ramna_tripathi@yahoo.co.in Mob: 7417286297	Production and implementation of eco-friendly bamboo-bricks for water filtration	4,33,800
25	Dr Manu Pant Associate Professor Department of Life Sciences Graphic Era (Deemed to be University) 566/6, Bell Road, Clement Town Dehradun (UK) Email: himaniab@gmail.com; manupant@geu.ac.in Mob: 9917292899	Genetic and nutrient composition diversity analysis in 'Bhat' cultivars from Garhwal region of Uttarakhand	4,25,900

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26	Dr Pankaj Bahuguna Assistant Professor Department of Basic and Social Sciences College of Horticulture VCSG UHF Bharsar Pauri (UK) Email: pankajbahuguna@rocketmail.com Mob: 9027765245	Study of impact of out-migration in the rural areas of Pauri Garhwal	1,79,600
27	Dr Gagan Matta Assistant Professor Department of Zoology and Environmental Science Gurukula Kangri (deemed to be University) Haridwar (UK) Email: drgaganmatta@gkv.ac.in Mob: 9897161345	Impact assessment of pre and post COVID19 air and water quality in Haridwar district, Uttarakhand	2,09,000
28	Dr Sandeep Kumar Assistant Professor Department of Botany and Microbiology Gurukul Kangri Deemed to be University Haridwar (UK) Email: sandeep.kumar@gkv.ac.in Mob: 9002526634	Bioefficacy of certain bioactive components of <i>Sida cordifolia</i> L. and <i>Bacopa monnieri</i> (L.) Pennell against foodborne bacteria	3,37,400
29	Dr Vasudha Pant Secretary Green Hills Trust Kranti Kutir East Pokharkhali Almora (UK) Email: vasudha.pant@gmail.com Mob: 9456722422	Effect of various treatments in reducing phytate content of Finger millet for improved nutrition	3,40,400

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30	Prof Dinesh Chandra Bhatt Department of Zoology and Environmental Science Gurukul Kangri (Deemed to be University) Haridwar (UK) Email: dineshharidwar@gmail.com Mob: 9927922335	Causes, consequences, trends and mitigation of human wildlife conflict in districts Haridwar and Tehri Garhwal	2,45,400
31	Prof R.C. Sundriyal Department of Forestry & Natural Resources Chauras Campus H.N.B. Garhwal University Srinagar Pauri (UK) Email: sundriyalrc@yahoo.com Mob: 9412094046	Improvising decentralized forest governance in Central Himalaya: Converging on livelihoods and policy concerns	8,43,000
32	Prof Girish Sindhwani Department of Pulmonary Medicine All India Institute of Medical Sciences (AIIMS) Rishikesh Dehradun (UK) Email: girish.sindhwani75@gmail.com Mob: 7895050321	Uttarakhand ILD Registry (UKIR)	2,85,750
33	Dr Anuj Sharma Associate Professor Department of Chemistry Indian Institute of Technology Roorkee Roorkee Haridwar (UK) Email: anujsharma.mcl@gmail.com Mob: 8439764306	Conversion of biomass from flora of Uttarakhand into high valued products like biofuels using green and sustainable radical deoxygenation and decarboxylation processes	5,25,000

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34	Dr Munesh Kumar Associate Professor Department of Forestry and Natural Resources H.N.B. Garhwal University Chauras Srinagar Pauri (UK) Email: muneshmzu@yahoo.com Mob: 9411789420	Assessment of soil health and plants based product from different land use pattern for livelihood dependency in Kirtinagar block of Uttarakhand	3,58,900

