



GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

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OFFICE OF THE DIRECTOR (RESEARCH & CONSULTANCY)

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F. No. GGSIPU/DRC/FRGS/2022/1220

Dated: 16.06.2022

Sub: Sanction of grants under Faculty Research Grant Scheme (FRGS) for the session 2022-23.

The O/o. Director (R&C) received research projects from the faculty of University Schools of Studies for sanction of grants under the Faculty Research Grant Scheme (FRGS) 2022-23. A Project Evaluation Committee for each discipline comprising of the Dean of the concerned School, External Subject Expert and Director (R&C) evaluated the proposals in meetings held in the office of Director (R&C). The panel of subject experts proposed by the Dean of the concerned school was approved by the Hon'ble Vice Chancellor.

The project evaluation committee has recommended the sanction of projects as per details listed below:

S.NO.	DISCIPLINE	NAME OF THE FACULTY	PROJECT TITLE	SCHOOL	AMOUNT SANCTIONED
1	Chemistry	Dr. Gulshan Kumar	Synthesis, characterizations and applications of cost-effective and green polymer composites	USBAS	190000
2	Chemistry	Dr. Leena Khanna	Synthesis of Dibenzoxepines for Potential Biological Importance	USBAS	195000
3	Chemistry	Dr. Yogesh K. Tyagi	Studies on preparation and characterization of carbohydrate-based aerosol forming composites for fire extinguishing applications	USBAS	200000
4	Chemistry	Dr. Shipra Mittal Gupta	Synthesis of stable CNT nanofluid in ethylene glycol/water basefluid without surfactant	USBAS	190000
5	Chemistry	Dr. Tapan K. Jain	Metal Organic Framework(MOF) based magnetic nano-composites for drug delivery and other applications	USBAS	200000
6	Chemistry	Dr. Arif Ali Khan	Synthesis and Characterisation of 6-Fluoro-2-phenyl-2,3-dihydro-1-oxa-3,5,8-triaza-2-phosphanaphthalen-4-one and its Derivatives.	USBAS	200000

7	Mathematics	Dr. Ram Shankar Gupta	A study of biconservative submanifolds and Ricci solitons.	USBAS	21390
8	Physics & Nano-Science & Technology	Prof. Anindya Datta	Development of highly sensitive optical sensing platform using Silver Fractals: Detection of Arsenic (III) in drinking water.	USBAS	190000
9	Physics & Nano-Science & Technology	Dr. Satyabrata Mohapatra	Development of MoS ₂ /graphene nanohybrids for photocatalytic removal of toxic pollutants from water	USBAS	190000
10	Physics & Nano-Science & Technology	Dr. Rajesh Kumar	Synthesis and SHI beam induced modifications of MoS ₂ nanostructures thin films for potential applications	USBAS	195000
11	Physics & Nano-Science & Technology	Prof. Shruti Aggarwal	Synthesis and dosimetric investigations on rare earth doped LiCaAlF ₆ Phosphor	USBAS	180000
12	Chemistry	Prof. Vaishali Singh	Synthesis and Characterization of Mesoporous Metal Oxides for Gas Sensing Application	USBAS	180000
13	Physics & Nano-Science & Technology	Dr. S. Neeleshwar	Development of silicide based environment friendly thermoelectric materials	USBAS	190000
14	Biotechnology	Prof. N. Raghuram	Identification and validation of co-regulated modules and associated hub gene(s) involved in nitrogen (N)-response or-use efficiency in rice.	USBT	170000
15	Biotechnology	Dr. Promila Gupta	To check bioavailability of plant derived extract phytoconstituents amount for eliciting digestive enzyme regulation response via in-vitro digestion model approach.	USBT	200000
16	Biotechnology	Dr. Nimisha Sharma	Elucidation of the role of Arabidopsis thaliana EAF transcription factors	USBT	200000
17	Biotechnology	Dr. Rinu Sharma	Identification of Genes Regulated by FGFR1 Signalling in Esophageal Cancer	USBT	200000
18	Biotechnology	Prof. Meenu Kapoor	Investigation into role of Physcomitrium Cytosine Methyltransferase DNMT2 in DNA Methylation and Protein Accumulation	USBT	190000
19	Biotechnology	Prof. K. K. Aggarwal	Evaluation of anti-cathepsin activity of plants to be suggested as an alternative therapeutics for rheumatoid arthritis	USBT	200000

20	Biotechnology	Dr. Ram Singh Purty	Genome-wide analysis of Arsenite efflux transporter (ACR3) and Arsenate reductase (arsC) genes family and their expression under arsenic stress in contrasting rice genotypes"	USBT	200000
21	Biotechnology	Dr. Gaurav Pandey	To compare the transcriptome of recombinant E. coli secreting SPA in synthetic and complex medium	USBT	200000
22	Biotechnology	Dr. Ranjith Kumar C.T.	Identification of host proteins interacting with chikungunya virus nsP2 protein.	USBT	195000
23	Chemical Technology	Prof. Arinjay Kumar Jain	To study removal behaviour of anionic dye from Industrial wastewater using Magnetically modified A. barobadensis Miller leaves powder.	USCT	200000
24	Chemical Technology	Mr. Dinesh Kumar	Synthesis of cellulose nano crystals and their catalytic applications for conversion of Glucose to-5HMF and TRS	USCT	200000
25	Chemical Technology	Dr. Aradhana Srivastava	Enhanced cyanobacteria and lipid production in mixotrophic continuous culture using white and red illumination	USCT	200000
26	Chemical Technology	Dr. Biswajit Sarkar	Simultaneous removal of cationic/anionic and cationic /nonionic dyes from aqueous solution in binary system using micellar-enhanced ultrafiltration	USCT	195000
27	Chemical Technology	Sh. Vinay Shah	Thermo- Catalytic Conversion of waste plastic and biomass to Aromatic Hydrocarbons and value-added products	USCT	200000
28	Chemical Technology	Mr. Deepak Garg	Removal of Acid yellow-36 using immobilized adsorbent	USCT	200000
29	Chemical Technology	Dr. Neeru Anand	Effective removal of heavy metals from aqueous solution using modified chitosan composites	USCT	190000
30	Chemical Technology	Dr. Monisha Mridha Mandal	Heat transfer studies of Copper Polyaniline (PANI) using phytic acid based hybrid nanofluid	USCT	190000
31	Chemical Technology	Dr. Sanigdha Acharya	Adsorptive removal of phenolic compounds from aqueous solution.	USCT	200000
32	Chemical Technology	Prof. Uttam Kumar Mandal	Development of Cellulose Network/ Waste Polyaniline Nano-Composite as efficient Energy Storage/Catalytic Materials.	USCT	200000

33	Chemical Technology	Dr. Vinita Khandegar	Adsorption mechanism of ciprofloxacin using MC-GO/HMF-MC-GO/HRP-MC-GO Composites	USCT	200000
34	Chemical Technology	Dr. Tapan Sarkar	Simultaneous detection of dopamine, ascorbic acid and uric acid using metal nanoparticle decorated 2-D hybrids	USCT	200000
35	Chemical Technology	Dr. Rakesh Angira	A study on parameter estimation in thermodynamic models	USCT	122780
36	Education	Dr. Anjali Shokeen	A study on the perception of Teachers and Students towards the Entrepreneurship Mindset Curriculum (EMC) in Government Schools of Delhi	USE	55000
37	Education	Dr. Amit Ahuja	A study of the Significance of Massive Open Online Courses (MOOCs) for the professional Growth of prospective teachers of undergraduate teacher education programme	USE	60000
38	Education	Dr. Shalini Yadava	Extent of Empathy in Post Graduate Students of Education : An Exploratory Study	USE	40000
39	Environment Management	Dr. Neetu Rani	Assessment of germination potential of seeds under the influence of treated and untreated domestic wastewater received from hybrid constructed wetland	USEM	170000
40	Environment Management	Dr. Pamposh	Estimation of carbon stocks in upland and inland area of selected wetlands in Delhi	USEM	190000
41	Environment Management	Dr. Anshu Gupta	To study the potential of Biologically synthesized metal/metal oxide nanoparticles in treatment of heavy metals and organic Pollutant(s)	USEM	185000
42	Environment Management	Dr. Sanjay Keshari Das	Spider diversity in Selected Urban Wetlands of NCR Delhi (Phase II)".	USEM	172000
43	Environment Management	Dr. Tuisem Shimrah	Study on Potentials of Wild and Non-cultivated Edible Plants for local livelihood upliftment and food security in newly created Kamjong District, Manipur	USEM	170000
44	Environment Management	Dr. Deeksha Katyal	Identification and analysis of emerging micropollutants from urban aquatic systems	USEM	200000
45	Environment Management	Prof. Rita Singh	Assessment of floral diversity and their avifaunal interactions in urban landscape of NCT Delhi.	USEM	185000

46	Environment Management	Dr. Sumit Dookia	Habitat Suitability Analysis of Asiatic Steppe Wildcat (<i>Felis silvestris ornata</i>) in Thar Desert of Rajasthan.	USEM	175000
47	Environment Management	Prof. Anubha Kaushik	Performance Assessment of Integrated CW-MFC system using different Substrates and Operational Conditions	USEM	170000
48	Environment Management	Prof. Prodyut Bhattacharya	Impact of Climate Risk and Vulnerability on Biocultural Diversity and Agrobiodiversity in Sundarbans, West Bengal	USEM	200000
49	Information Technology/ Computer Science/ Electronics	Mr. Chakresh Kumar	Performance analysis of Dense communication system using coded modulation techniques for suitable data rate	USICT	50000
50	Information Technology/ Computer Science/ Electronics	Dr. Jyotsna	Face recognition under dark environmental conditions for colored face images	USICT	65000
51	Information Technology/ Computer Science/ Electronics	Dr. Anuradha Chug	Identifying the relationship between refactoring and software defect prediction	USICT	70000
52	Law & Legal Studies	Dr. Rakesh Kumar Handa	Critically analyse the Cyber Security in India under the IT Act, 2000 with special reference to e-commerce transactions	USLLS	55000
53	Law & Legal Studies	Dr. Vandana Singh	Trade Secret Protection in India Analysis From Intellectual Property Perspective	USLLS	70000
54	Law & Legal Studies	Dr. Ravinder Kumar	Quality of Life of Person living in Old Age Homes in Delhi: Issues & Challenges	USLLS	65000
55	Law & Legal Studies	Dr. Kavita Solanki	Creche Facilities Provided under the maternity benefit amendment Act, 2017: An Overview	USLLS	40000
56	Law & Legal Studies	Dr. Vani Prakash	Exploring Restorative Processes in Environmental Justice Paradigm	USLLS	40000
57	Management	Prof. Vijita S. Aggarwal	To study the relationship between conflict resolution mechanism, cultural intelligence and innovation of select indian joint venture	USMS	80000
58	Management	Dr. Gagan Deep Sharma	Investigating the role of environmental regulations and solid wastage in sustainable tourism : Evidence from OECD countries	USMS	80000

59	Management	Dr. Sanchita Bansal	Effectiveness of online classes during Covid-19 times : A study of B-schools in India	USMS	70000
60	Management	Dr. Ashish Kumar	Are Gold, Oil and Equities immune to Economic Policy Uncertainties? An evidence from India	USMS	80000
61	Architecture	Ms. Rekha Bhaskaran	A study of the state of public space in DDA colonies to determine the impact of user-driven spatial transformation on their use efficiency	USAP	90000
62	Architecture	Ms. Sonali Roy Chandra	Analysis and role of cognitive abilities in Academic performance of slow learners in Architectural Studies	USAP	95000
63	Architecture	Sh. Sumant Sharma	A comparative analysis of legal and land development policies influencing the market value of apartments in group housing sites/sectors across satellite towns of Noida and Ghaziabad around Delhi-NCT.	USAP	85000
64	Architecture	Sh. Akhil Dass	Water Sensitive City planning of Heritage Cities in India	USAP	75000
65	Architecture	Sh. Anurag Giri	Approach Towards a clean City	USAP	90000
66	Architecture	Prof. Neeraja Lugani Sethi	Location Model for locating military hospitals in India	USAP	75000
67	Architecture	Ms. Hemlata	Study on Residential Satisfaction: Delhi, NCR	USAP	70000
68	Mass Communication	Dr. Sweta Singh	Framing of Russo-Ukrainian war (2022) by Indian news media: A framing analysis	USMC	85000
69	Mass Communication	Dr. Kulveen Trehan	Framing Indian Sports women in Social Media during Tokyo Olympics 2020 : A Study	USMC	95000
70	Economics	Ms. Pooja Rathore	Comparative study of student performance in model and public school: An Empirical analysis	USHSS	70000

71	English	Dr. Vivek Sachdeva	Memories Across Time : Youtube Narratives on Partition	USHSS	87000
Total					1,02,28,170


The amount in different heads of the project and comments of the Project Evaluation Committee shall be communicated to the individual faculty.

The issues with the approval of the Competent Authority.


(Prof. Nimisha Sharma)
Director (R&C)

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(Deepak Kumar)
Section Officer (R&C)