

Research Projects at SMVD University till December, 2024

S. No.	Name of the Project	School	Name of the Principal Investigator/ Co- Investigator	Name of the Funding Agency	Grant sanctioned (Rs.)	Year of Award	Duration of the Project	Unique No. allotted
1	Bioinformatics Infrastructural Facilities (BIF)	SoBT	Dr. V. Verma, Prof., SoBT	DoBT, GoI	5430000	2007	13 years	PR-15
2	SAP DRS-I	SoBT	Dr. Sharada M. Potukuchi, Assoc. Prof., SoBT	UGC	6475000	2011	5 years	PR-53
3	Design modification and analysis fo effect of variable quantization on A* Prune, K-MCSP Algorithm:- for Video compression	SoECE	Dr. Amit Kant Pandit, Professor, SoECE	UGC	830800	2012	2 years	PR-61
4	Exploring potentials of probiotic bacteria as a potential source of phytate degrading enzymes and bacterioncins production	SoBT	Dr. Preeti Sharma, Asstt. Prof.; Mr. Parvez Singh Slathia, Asstt. Prof., SoBT	DBT	3708780	2014	3 Years	PR-72
5	Genetic diversity and evolutionary perspectives in population groups of Jammu & Kashmir	SoBT	Dr. Swarkar Sharma, Asstt. Prof., SoBT; Dr. Ekta Rai, Asstt. Prof., SoBT	National Geographic Society	\$50,000	2014	3 Years	PR-75
6	Targeting synthetic lethality interaction among genome stability and protein degradation pathways medicated by sfc-e3 ligase component f-box proteins for personalized drug development	SoBT	Dr. Narendra Kumar Bairwa, Asstt. Prof., SoBT	DBT	8200000	2013	3 Years	PR-76
7	Earthquake hazard evaluation in Jammu and Kashmir Himalaya and western Indo-Gangetic Plains	SoP	Dr. S. K. Wanchoo, Assoc. Prof., SoP; Dr. Suprio Mitra, Assoc. Prof., IISER, Kolkata	UGC-UKIERI	1781400	2015	2 years	PR-78
8	Genetic perspectives of type 2 diabetes susceptibility in population group of Jammu & Kashmir, India	SoBT	Dr. Swarkar Sharma, Asstt. Prof., SoBT	SERB, DST	2726000	2015	3 years	PR-80
9	Identification of unique and novel alleles of thermo stable and cold active lipases and cellulases from microflora of J&K state using metagenomic approach against J&K special call	SoBT	Dr. V. Verma, Prof., SoBT; Dr. Shafaq Rasool, AP, SoBT	DBT	4956000.16	2015	3 years	PR-81

10	Synthesis and study of electronic structure of transition metal doped and undoped EU2O3 thin films	SoP	Dr. Ram Prakash, Asstt. Prof., SoP	UGC-DAE CSR	546058	2015	3 years	PR-82
11	Bioactive molecules from endophytic microorganisms	SoBT	Dr. V. Verma, Prof., SoBT; Dr. Shafaq Rasool, Asst. Prof., SoBT	UGC	1390000	2015	3 years	RP-84
12	Engaging employees: an insight from small and medium enterprises (SMES) of Jammu Region, J&K State	SoB	Dr. Arti Devi, Asstt. Prof., SoB	UGC	918400	2015	3 years	RP-85
13	To Study Synergistic Effect of Dietary Molecules/Nutraceutical(s) in Combination with Clinically Validated Cancer Chemotherapeutic Agents	SoBT	Dr. Samantha Vaishnavi, Asstt. Prof., SoBT	UGC	1405000	2015	3 Years	RP-86
14	Transient solutions of markovian queuing models with customer impatience and retention of renege customers	SOM	Dr. Rakesh Kumar, Asstt. Prof., SoM	UGC	989000	2015	3 years	RP-87
15	Biological-activity-predictions, x-ray structure analysis and molecular interactions in some organic compounds of medicinal importance	SoP	Dr. Kamini, Asstt. Prof., SoP	UGC	603000	2015	3 years	RP-88
16	Evaluation of Advertisement Effectiveness in India	SoB	Dr. Supran K Sharma, Associate Professor, SoB, Dr. Jyoti Sharma, Associate Professor, SoB	AICTE	575000	2015	3 years	RP-89
17	Physics of earthquakes and delineation of Himalayan thrust faults in Jammu & Kashmir	SoP	Dr. S.K.Wanchoo, AP, SoP; Dr. Supriyo Mitra, Assoc. Prof., IISER, Kolkata	UGC	1370000	2015	3 years	RP-90
18	Genetic perspective of DNA damage in breast cancer	SoBT	Dr. Rakesh Kumar, Asstt. Prof., SoBT	SERB, DST	2454000	2015	3 years	RP-91
19	Genetics of gastric carcinoma in ethnic population of Kashmir	SoBT	Ms. Ruchi Shah, Ph.D. Student, SoBT	DST	2145000	2016	3 years	RP-92
20	Molecular characterization of non-small cell lung carcinoma in patients from Jammu and Kashmir	SoBT	Dr. Rakesh Kumar, Asstt. Prof., SoBT	DST	9001892	2017	3 years	RP-93

21	Synthesis and characterization of mixed Borate/phosphate nanophosphors for Solid State Lighting	SoP	Dr. Vinay Kumar, Asstt. Prof., SoP	SERB, DST	1825560	2017	3 years	RP-94
22	Development of solar thermal-photovoltaic hybrid system with pcm's storage unit for heating & cooling application in buildings	SoEM	Dr. Vineet Veer Tyagi, Asstt. Prof., SoEM	UGC	600000	2017	2 years	RP-95
23	Estimation of deformation and strain rate in Jammu & Kashmir and Himachal Pradesh Himalaya using Navic Geodesy	SoP	Dr. S. K. Wanchoo, Assoc. Prof., SoP; Dr. Supriyo Mitra, Assoc. Prof., IISER, Kolkata	ISRO	3680000	2017	3 years	RP-96
24	Efficiency Analysis of Hill Agriculture: A Micro Level Study of Jammu and Kashmir	SoE	Dr. Kakali Majumdar, Assoc. Prof., SoE	ICSSR	700000	2017	2 years	RP-97
25	Completely prime ideals of skew polynomial Rings	SoM	Dr. V. K. Bhat, Professor, SoM	SERB	443200	2017	3 years	RP-98
26	Engineering of the Insulin producing probiotic yeast Saccharomyces boulardii and explo-ration of its applications as ther-apeutics for diabetes	SoBT	Dr. Narendra K Bairwa, Asstt. Prof., SoBT	SERB	4756000	2018	3 years	RP-99
27	Active radar absorbers based on frequency selective surfaces: Active stealth technology	SoECE	Dr. Kumud Ranjan Jha, Assoc. Professor, SoECE	DRDO	2287000	2018	30 months	RP-100
28	Availability, utilization and digital document of non-timber bio resources for sustainable rural livelihood and decision support system for the rural households in the Northwest Himalayas	SoM	Mr. Ashish Suri, Asstt. Prof., SoECE	NMHS, GBPNI-HESD	317548	2018	3 Years	RP-101
29	A study on Orlicz sequence spaces and their operators	SoM	Dr. Kuldeep Raj, Asstt. Prof., SoM	CSIR	632000	2018	36 months	RP-102
30	Research Start-up-Grant for the year 2018-19 under revenue, ti-tled Genetic factors and its association with risk of metabolic syndrome and hepatocellular carcinoma in North India	SoCSE	Dr. Abhishek Gupta, Asstt. Prof., SoCSE	UGC-BSR	1000000	2018	3 years	RP-103
31	National Post-Doctoral Fellowship (NPDF)	SoBT	Dr. Ankit Mahajan Dr. Swarkar Sharma, Asstt. Prof., SoBT (Mentor)	SERB-DST, GOI	960000 per annum	2018	2 Years	RP-104

32	A comprehensive study of Culture, Philosophy, Literature and Language	SOLL	Dr. Amitabh V Dwivedi , AP, SOLL	ICSSR	-	2018	18 months	RP-105
33	To restraint or regulate the reproductive health issues of human from J&K	SoBT	Dr. Rakesh Kumar, Assistant Professor, SoBT	CAR scheme of ICMR	23809500	2018	5 Years	RP-106
34	India's Financial Inclusion: Determinants and Impediments	SoE	Dr. Arif Bilah Dar, Asstt. Professor, SoE	ICSSR	270000	2019	1 Year	RP-107
35	Increasing resilience to Earthquakes in North India	SoP	Dr. S. K. Wanchoo, Assoc. Prof., SoP	Royal Society, London	0	2019	03 Years	RP-108
36	An Empirical Study of Bank Credit Risk Management Using Big Data Analytics” under domain Growth, Macro Trade and Economic Policy	SoB/ SoECE	Dr. Ashutosh Vashishtha, (Prof.), SoB/ Dr. Amit Kant Pandit, SoECE (Prof.)	ICSSR	1500000	2019	2 Years	RP-109
37	Heavy, Toxic and Trace Metal Detection in Biological Samples gallstones and Kidney stones using EDXRF and PIXE Spec-troscopic Techniques	SoP	Dr. Vivek Singh, Asstt. Prof., SoP	UGC-DAE CSR	45000 (per year)	2019	3 Years	RP-110
38	Smart farming for precession agriculture in Jammu and Kashmir using IoT	SoCSE	Ms. Monia, Asstt. Prof., SoCSE; Ms. Pooja Sharma, Asstt. Prof., SoCSE	NPIU, GoI	1286000	2019	1 Year	RP-111
39	Design of an ADC with a sampling frequency of hundreds of mega samples per second for 5G Technology	SoECE	Mr. Akshay Mann, Asstt. Prof., SoECE; Dr. K. R. Jha, Assoc. Prof., SoECE; Dr. Sumeet Gupta, Assoc. Prof., SoECE	NPIU, GoI	552000	2019	1 Year	RP-112
40	Development and Tribiological characterization of Self-Lubricating Aluminium Alloy (AA6061)/ Nano-Cr ceramic Composite	SoME	Dr. Mir Irfan Ul Haq, Asstt. Prof., SoME	NPIU, GoI	0	2019	1 Year	RP-113
41	Tailoring of Thermoelectric Properties of PbS Quantum Dot Based Thin Films for High Temperature Applications	SoECE	Dr. Purnima Hazra, Asstt. Professor, SoECE	DST-SERB	610000	2019	36 Months	RP-114

42	Analyses of Modern Human DNA to understand Genomic formation of population groups from J&K-India by National Geographic Society	SoBT	Dr. Swarkar Sharma & Dr. Ekta Rai, Asstt. Prof., SoBT	National Geographic Society	\$30,000	2019	2 Years	RP-115
43	Digital Literacy Penetration and its impact on creating sustainable livelihoods for rural women entrepreneurs in Jammu & Kashmir	SoE/ SoB	Dr. Meenakshi Gupta, SoE/ Dr. Syeda S. Bukhari, Asstt. Prof., SoB	(RPS-Mgmt), AICTE	500000	2020	2 Years	RP-116
44	Study of CSR Initiatives with respect to Dynamic and Innova-tion Capabilities of Social Enterprises in India	SoB	Dr. Saurabh, Assoc. Prof., SoB	(RPS-Mgmt), AICTE	400000	2020	2 Years	RP-117
45	The genetics and epigenetics of infertility in humans by functional interrogation in animal models- A multi institutional study	SoBT	Dr. Rakesh Kumar, Asstt. Prof., SoBT; Dr. Showkeen Muzamil Bashir, Asstt. Prof., SKUAST-Kashmir	ICMR, Govt. of India	2825000	2020	3 Years	RP-118
46	Design & Develop an Energy-Aware Agriculture monitoring and irrigation system by Utilizing NBIoT in hilly areas	SoECE	Dr. Manish Sabraj, Assoc. Prof., SoECE; Dr. Yogeshwar Singh, Dadhwal, Asstt. Prof., SoECE	RPS-AICTE	820118	2020	3 Years	RP-119
47	Plant Leaves Disease Classification Using Computational Intelligence Techniques	SoM	Mr. Ashish Suri, Asstt. Prof., SoECE	RPS-AICTE	496854	2020	3 Years	RP-120
48	Release of Grant-in-Aid to Shri Mata Vaishno Devi University, Katra for establishment of Dr. C V Raman Chair in Physical Sci-ences at SMVDU	SoP	Dr. Yugal Khajuria, Assoc. Prof., SoP and Dr. Kamni, Asstt. Prof., SoP	HED, J&K Govt	7600000	2021	5 Year	RP-123
49	Relaese of Grant-in-Aid to Shri Mata Vaishno Devi University, Katra for Entrepreneurship Pro-gramme for Students of Jammu Division colleges	SoECE	Dr. Supran K. Sharma, Prof., SoB (Coordinator)	HED, J&K Govt	950000	2021	3 Year	RP-124
50	Setting up of high end Compu-ting AI and Deep Learning Lab at SMVDU to be used by Jammu Div. Colleges students and SMVDU (HEDSS2021100632)	SoCSE	Dr. Bajjnath Kaushik, Assoc. Prof., SoCSE	HED, J&K Govt.	165000000	2021	5 Years	RP-126

51	Transdisciplinary research and Innovation Hub (for Jammu Division Colleges) at SMVDU (HEDSS2021100629)	SoBT/ SoECE	Dr. Sharada M. Potukuchi, Assoc. Prof., SoBT; Dr. Sumeet Gupta, Assoc. Prof., SoECE; Dr. Balbir Singh, Prof., SoME; Dr. Baijnath Kaushik, Assoc. Prof., SoCSE; Dr. Vineet Veer Tyagi, Asstt. Prof., SoEM; Dr. Rakesh Kumar, Asstt. Prof., SoBT	HED, J&K Govt.	10000000	2021	5 Years	RP-127
52	Technology Innovation Hub by SMVDU (HEDSS2021100154)	SoBT/ SoECE	Dr. K. R. Jha, Assoc. Prof., SoBT; Dr. Manoj Kr. Gupta, Assoc. Prof., SoCSE; Mr. Manoj Kumar, Asstt. Prof., SoCSE; Dr. Pooja Sharma, Asstt. Prof., SoCSE; Mr. Ashish Suri, Asstt. Prof., SoECE; Dr. Neeraj Tripathi, Asstt. Prof., SoECE; Dr. Vijay Kumar, Asstt. Prof., SoECE; Dr. Sanjay Mohan, Asstt. Prof., SoME; Dr. Mir Irfan Ul Haq, Asstt. Prof., SoME; Dr. Ankush Raina, Asstt. Prof., SoME	HED, J&K Govt	2000000	2021	5 Years	RP-128
53	Did PM Garib Kalyan Yojna 2020 and community participation work during COVID-19 pandemic? Impact Assessment of some COVID-19 affected red zones of J&K	SoE	Dr. Arif Billah Dar, Asstt. Prof., SoE	ICSSR	227000	2021	9 Months	RP-129
54	Probing electronic structure of phosphates	SoP	Dr. Ram Parkash, Asstt. Prof., SoP	UGC-DAE CSR	213000	2021	3 Years	RP-130
55	FIST Programme 2020 by DST, GoI Level-1	SoM	Dr. Kuldip Raj, Asstt. Prof., SoM	DST, GoI	2800000	2021	5 Years	RP-131

56	Financial support to Program entitled M.Sc. Biotechnology at Shri Mata Vaishno Devi University, Katra (J&K)	SoBT	Dr. Sharada M. Potukuchi, Assoc. Prof., SoBT	DBT, GoI	18000000	2021	5 Years	RP-132
57	Social Enterprise Framework for the Horticulture based Producer Organizations in Hill States of North India	SoB	Dr. H. G. Mishra, Assoc. Prof., SoB; Dr. Saurabh, Assoc. Prof., SoB	MGNCRE, GoI	550000	2021	17 Months	RP-134
58	Development of Ergonomically designed working model of Fruit Plucking Device	SoME	Dr. Sanjay Mohan, Asstt. Prof., SoME	DST (PRISM)	142000	2021	14 Months	RP-135
59	To study the genetic patterns among different cancers in Jammu & Kashmir Population India	SoBT	Dr. Rakesh Kumar, Asstt. Prof., SoBT	JKST&IC, DST, J&K Govt.	400000	2021	2 Years	RP-136
60	Theoretical and Numerical Study of the Adaptive Control Design for Uncertain Nonlinear Systems Using Soft Computing Approach	SoM	Dr. Uday Pratap Singh, Assoc. Prof., SoM	DST-SERB	220000	2022	3 Years	RP-137 (Transferred to Central University, Jammu)
61	An Evaluation of Spatial Plan Preparation Process for Rurban Cluster in Jammu and Kashmir Region	SoALD, SoB	Dr. Supran Kr. Sharma, Prof., SoB; Dr. Sourovec Dutta, Asstt. Prof., SoALD	MGNCRE, GoI	300000	2022	6-9 months	RP-138
62	Synthesis Spectroscopic and Microscopic Studies of Doped Alkali-Alkaline Hybrid Vanadates	SoP	Dr. Kamni, Asstt. Prof., SoP	UGC-DAE-CSR	226440 for 1st year	2022	3 years	RP-139
63	Design, Development, Theoretical and Experimental Study of Smart Tribological Materials and Coatings for Space Applications	SoME	Dr. Mohd. Farooq Wani, Professor, NIT, Srinagar (J&K, UT); Dr. Mir Irfan Ul Haq, Asstt. Prof., SoME	Collaborative Scheme of DST, GoI & RFS	0	2022	3 years	RP-140

64	Solar Thermal/ Photovoltaic Hybrid Collector System for Efficient Utilization in Rural Building for Heating and Electrification	School of Energy Management	Dr. V. V. Tyagi, Asstt. Prof. SoEM; Dr. Sanjeev Anand, Asstt. Prof., SoEM; Dr. Kapil Chopra, Asstt. Prof., SoME	Japan International Cooperation Agency Project for ASEAN University Network/ Southeast Asia Engineering Education Development Network (AUN/SEED-NET) and University of Malaya, Kaula Lumpur, Malaysia	20000 USD	2022	upto 31.07.25	RP-141
65	Prospects of Micro-irrigation under Pradhan Mantri Krishi Sinchai Yojana: A Case Study of the Jammu Region	SoE	Dr. Kakali Majumdar, Asso. Prof., SoE	ICSSR	495000	2023	5/6 Months	RP-142
66	Nano-Enhanced PCM Integrated Hybrid Solar Air/ Water System for Colder Regions of India	SoME	Dr. Kapil Chopra, Assistant Professor, SoME; Dr. Vineet Veer Tyagi, Asstt. Prof., SoEM	DST-SERB	2399330	2023	36 Months	RP-143
67	Experimental investigation of composite phase change materials on solar photovoltaic - thermoelectric generator hybrid system its performance enhancement	SoME	Dr. Eswaramoorthy Muthusamy, Professor, SoME	DST-SERB	2600010	2023	36 Months	RP-144
68	Design and Development of Renewable Energy Powered Bakery Unit for Skill Development and Employment Generation in Himalayan Region	SoME	Dr. Yatheshth Anand, Assistant Professor, SoME; Dr. Sanjeev Anand, Asstt. Prof., SoEM; Dr. Vineet Veer Tyagi, Asstt. Prof., SoEM	NMHS, GoI	48,00,000	2024	3 years	RP-145

69	Charging Infrastructure deployment in view of electric vehicle infusion: A survey for Union Territory of Jammu & Kashmir	SoEM	Dr. Sanjeev Anand, Assistant Professor, SoEM; Dr. Yatheshth Anand, Assistant Professor, SoME & Dr. Vineet Veer Tyagi, Assistant Professor, SoEM	JKST&IC, Govt. of J&K (UT)	660000	2024	2years	RP-146
70	Design & Development of a farmer friendly, cloud based Agricultural Advisory Service	SoECE	Er. Ashish Suri, Assistant Professor, SoECE; Dr. Sanjeev Anand, Assistant Professor, SoEM & Dr. Yatheshth Anand, Assistant Professor, SoME	JKST&IC, Govt. of J&K (UT)	600000	2024	2years	RP-147
71	Abatement of clinically investigated allergies through improved indoor air quality for the Union Territory of Jammu & Kashmir	SoME	Dr. Yatheshth Anand, Assistant Professor, SoME; Dr. Sanjeev Anand, Assistant Professor, SoEM & Mr. Ashish Suri, Assistant Professor, SoECE	JKST&IC, Govt. of J&K (UT)	800000	2024	2years	RP-148
72	Study of Mechanical behaviour of Bioinspired 3D printed functionally graded structures for lightweight applications	SoME	Dr. Mir Irfan Ul Haq, Assistant Professor, SoME; Dr. Ankush Raina, Assistant Professor, SoME	JKST&IC, Govt. of J&K (UT)	700000	2024	2years	RP-149
73	To study the Synergism of grapheme and diamond nano-particles in enhancing the Tribological performance of PAO oil for Automotive application	SoME	Dr. Ankush Raina, Assistant Professor, SoME; Dr. Ankush Anand, Professor, SoME & Dr. Mir Irfan Ul Haq, Assistant Professor, SoME	JKST&IC, Govt. of J&K (UT)	570000	2024	2years	RP-150

74	“Moving towards Carbon Neutrality - Strategy and Impact to Society and Industry (M2CNeu)”	SoEM	Dr. Vineet Veer Tyagi, Associate Professor, SoEM	The Japan ASEAN Collaboration Education Program (JACEP) through Universiti Malaya, Malaysia.	USD 38,000	2023	untill December, 2025	RP-151
75	“Reviving Memories through Cuisine: Tracing Cultural Consciousness and Social Identity of Kashmiri Pandits”	SoL&L	Dr. Nagendra Kumar, Professor, Department of Humanities & Social Sciences, IIT, Roorkee, Uttarakhand as Project Director and Dr. Anurag Kumar, Assistant Professor, SoL&L, SMVDU as Co-Project Director	ICSSR, GoI	Nil	2024	12 Months	RP-152