

List of Research Projects at SMVD University till May, 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 bacteriocins 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 reneged 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. Kuldip 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.), 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. Baijnath 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.	1000000	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. Kuldeep 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. Sourojee 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