



Research and Consultancy Brochure

श्री माता वैष्णोदेवी विश्वविद्यालय

SHRI MATA VAISHNO DEVI UNIVERSITY

Kakryal, Katra-182320, Jammu & Kashmir

Recognized under Section 2(f) & 12(B) of the UGC Act, 1956

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Vision

The vision of the university is Establishment of a Scientific & Technical University of Excellence to nurture young talented human resource for the service of Indian Society & World at large preserving the integrity and sanctity of human values.

Mission

The Mission of SMVD University is the pursuit of Education, Scholarship and Research and its application to the Society at highest International levels of excellence.

The objectives of the University are:

1. To provide education and training of excellent quality both at UG & PG levels.
2. To ensure that the University achieves and maintains an international standing in both teaching and research.
3. To promote study and research in new and emerging areas and encourage academic interaction of the faculty and students at national and international levels.
4. To encourage close collaboration with industry and facilitate the application of research for commercial use and for the benefit of society.

Core Values

1. Academic Integrity and Accountability.
2. Respect and Tolerance for the views of every Individual.
3. Attention to issues of National relevance as well as of global concern.
4. Appreciation of intellectual excellence and creativity.
5. Ceaseless aptitude of scientific exploration.

PREFACE

Shri Mata Vaishno Devi University (SMVDU) has been established under THE JAMMU AND KASHMIR SHRI MATA VAISHNO DEVI UNIVERSITY ACT, 1999, an Act of the J&K State Legislature (ACT No. XII of 1999 dated 12th May 1999) as an autonomous, highly Technical & fully Residential University. The University started functioning as an academic unit in Aug 2004 when it was inaugurated on 19th August 2004 at the hands of the then Hon'ble President of India Dr. A.P.J Abdul Kalam.

The University is approved by UGC under Section 2(F) & Section 12(B) of UGC Act of 1956. The technical programs of the University are recognized by AICTE while Architecture program is recognized by Council of Architecture.

The University receives funding from Shri Mata Vaishno Devi Shrine Board, an autonomous Board set up under the provisions of The J&K Shri Mata Vaishno Devi Shrine Act, 1986 of J&K State Legislature. The University also gets funds from the J&K State government and also obtained funds from UGC in XIth & XIIth Plan.

SMVD University is ranked 94 among the Top 100 Institutions in the country and among Top 150 universities in the country as per NIRF 2018. It is also selected as part of World Bank assisted TEQIP-III Scheme of MHRD.

Hon'ble Governor of the J&K State is the Chancellor of the University and its executive council includes luminaries like Prof. K.L. Chopra (Former Director IIT Kharagpur), Prof. Goverdhan Mehta (Former Director IISc. Bangalore), Sh. R.P. Agarwal, IAS (Former Secretary MHRD).

In SMVDU, each school Each School has clearly established specific research areas and the faculty members and students work towards goals within these specific research areas. The research facilities are augmented accordingly. The faculty members of the University have an impressive record of more than 369 publications in SCI/SCIE/SCOPUS/ABDC indexed research journals.

At present, the university has 28 running projects sponsored by premier central funding agencies of the country besides 08 no. of consultancy projects in hand.

Name of the School: School of Biotechnology

Year of establishment: 2005

Contact: Prof. V. Verma, Head, School of Biotechnology

Brief Profile of School:

Biotechnology continues to expand rapidly with new discoveries at a breathtaking pace. This industry, a merger of science and business, demands a multi-disciplinary workforce skilled in basic-research, product development, regulatory affairs and commercialization.

Recognizing this wider impact of biotechnology education and research in the 21st century, School of Biotechnology at SMVDU has placed due emphasis in the curriculum on interdisciplinary convergence in modern biology, engineering and technology, applied orientation, quantitative approach, practical training, awareness of the broader social, economic, environmental, ethical, legal and managerial issues in biotechnology. Some of the distinguishing features of the School include highly qualified faculty, in-house teaching, quality laboratory infrastructure for teaching and research, individual projects, good library, etc.

School of Biotechnology, SMVDU offers students the ability to learn, advance and succeed in this exciting field with a variety of learning opportunities designed to meet the needs of working adults.

Objectives

- To provide impetus to the activity of knowledge acquisition and education of students in basic sciences and technological know-how associated with the field of biotechnology, and other relevant areas
- To focus our teaching and research activities strategically around national economic goals.
- To facilitate comprehensive learning combining the scientific, technological and social aspects
- To seek new models of collaboration with other institutes, universities and industries.
- To combine academic study and the thrill of innovation

A. List of research projects sponsored by the government/ non- government agencies: -

S. No.	Title of the project (PI/CoPI)	Funding agency	Amount sanctioned (In Lakhs)	Status/Duration
1.	Centre for Advance Research (CAR) entitled 'To restraint or regulate the reproductive health issues of human from J&K'	Indian Council of Medical Research (ICMR).	10 Crore	On going
2.	Establishment of Bioinformatics Infrastructure (BIF) for the promotion of Biology Teaching	Apex Bioinformatics Centre, Dept.	97.11	Ongoing 2013-2017 2017-2020

	through Bioinformatics (Prof. V. Verma, Coordinator)	of Biotechnology, New Delhi		
3.	Molecular characterization of non-small cell lung carcinoma in patients from Jammu and Kashmir (Dr. Rakesh Kumar, PI)	DST-SSTP Grant	90.01	Ongoing 2017-2020
4.	Targeting synthetic lethality interaction among genome stability and protein degradation pathways mediated by SCF-E3 ligase component F box proteins for personalized drug development (Dr. Narendra Bairwa, PI)	Department of Biotechnology, Govt. of India	82	Ongoing 2013-2018
5.	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 (Dr. V. Verma, PI/Dr. ShafaqRasool, Co-PI)	Department of Biotechnology, Govt. of India	49.56	Ongoing 2015-2018
6.	Engineering of the Insulin-producing pro-biotic yeast <i>Saccharomyces boulardii</i> and exploration of its applications as therapeutics for diabetes (Dr. Narendra Bairwa, PI)	SERB-DST, Govt. of India	47.0	Ongoing 2017-2020
7.	Genetic Diversity and Evolutionary Perspectives in Population Groups of Jammu and Kashmir, India (Dr. Swarkar Sharma, PI)	National Geographic Society, USA	~30 (USD 50,000)	Ongoing/20 14-2018
8.	Exploring the potential of probiotic bacteria as a potential source of phytate degrading enzymes and bacteriocin production (Dr. Preeti Sharma, PI/ Mr. Parvez S. Slathia, CoPI,)	Department of Biotechnology, Govt. of India	37.09	Ongoing 2014-2018
9.	Genetic Perspectives of Type 2 Diabetes Susceptibility in Population Group of Jammu and Kashmir, India (Dr. Swarkar Sharma, PI)	Department of Science and Technology, SERB	27.0	Ongoing 2014-2017
10.	Genetic perspective of DNA Damage in breast cancer (Dr. Rakesh Kumar, PI)	Department of Science & Technology, SERB, Govt. of India	24.90	Ongoing 2015-2018

11.	Bioactive Molecules from endophytic Microorganisms Dr. V. Verma, PI/Dr. ShafaqRasool, Co-PI)	University Grants Commission, Govt. of India	15.4 13.9	Ongoing 2015-2018
12.	To Study Synergistic Effect of Dietary Molecules/ Nutraceutical(s) in Combination with Clinically Validated Cancer Chemotherapeutic Agents (Dr. Samantha Vaishnavi, PI)	University Grants Commission, Govt. of India	14.05	Ongoing 2015-2018
13.	Human Genetic Diversity and Evolutionary Perspectives of Type 2 Diabetes Susceptibility in Indian Populations (Dr. Swarkar Sharma, PI)	University Grants Commission, Govt. of India	6.0	Ongoing 2014-2016
14.	Exploring <i>Myxobacteria</i> from the state of Jammu and Kashmir for novel enzymes and secondary metabolism (Dr. ShafaqRasool, PI)	Department of Science & Technology, Govt. of India	19.63	Completed 2010-2013
15.	Strengthening of Botanical Garden (Dr. Dheeraj Vyas, PI)	Ministry of Environment and Forest, GOI	13	Completed 2007-2008
16.	Establishment of Herbal Garden Trikuta Hills at SMVDU University (Dr. Sharada M. Potukuchi, PI)	National Medicinal Plants Board, Ministry of Health & Family Welfare, GOI New Delhi.	10	Completed 2007-2010
17.	Fermentative production of lactic acid from Mahua flowers (Prof. V. Verma, PI)	TRIFED, New Delhi	14.95	Completed 2007-2009
18.	Development of DNA fingerprints in selected medicinal plants (Prof. V. Verma, PI)	Dabur India Limited, Ghaziabad	5.0	Completed 2007-2010
19.	Organocatalytic asymmetric Mannich/Intramolecular cyclization as formal [3+2] cycloaddition: One-pot synthesis of substituted pyrrolidine ring systems (Dr. Anil Kumar, PI)	University Grants Commission, Govt. of India	9.0	Completed 2011-2014
20.	DST Special Package for J&K (Prof. V. Verma, Coordinator)	Department of Science & Technology, Govt. of India	97.4	Completed /2009-2014

21.	UGC SAP DRS-I (Prof. V. Verma Coordinator, Dr. Sharada M. Potukuchi, Dy. Coordinator)	University Grants Commission, GOI	64.75	Completed 2011-2016
22.	UGC SAP DRS-I Additional Grant (Prof. V. Verma Coordinator, Dr. Sharada M. Potukuchi, Dy. Coordinator)	University Grants Commission, GOI	20.0	Completed 2011-2016
23.	Exploring Microbial Diversity & Mining Novel Hydrolases from Brackish Water Lakes of Ladakh Region by Metagenomic Approach (Dr. Shafaq Rasool, PI)	Council of Scientific and Industrial Research, Govt. of India	34.0	Completed 2012-2015
24.	mi RNA Status in Breast Tumors and therapeutic Potential (Prof. R.N.K. Bamezai, PI, Dr. Rakesh Kumar, CoPI)	J&K State DST, J&K	150.0	Completed 2012-2015
25.	Cell and tissue engineering of <i>in vitro</i> cultures of <i>Bacopamonneri</i> (L.) (Dr. Sharada M. Potukuchi, PI)	University Grants Commission, Govt. of India	13.71	Completed 2012-2015
26.	Molecular modeling and drug docking studies on Cystathionine beta lyase in selected members of Enterobacteriaceae (Mr. Parvez S. Slathia, PI, Dr. Preeti Sharma, CoPI)	University Grants Commission, Govt. of India	1.60	Completed 2012-2014
27.	Replication and characterization of newly identified T2D susceptible genetic loci in Some Indian Population Groups (Dr. Ekta Rai, PI)	University Grants Commission, Govt. of India	6.0	Completed 2014-2016
28.	Scientific Innovation and Intellectual Property Rights (Dr. Rakesh Kumar, PI)	DST-JK (Workshop)	1.0	2017
TOTAL GRANTS			966.88	(Completed & Ongoing)

B. Faculty Research Consultancy Expertise/ Specialization:

S.No.	Faculty	Area of expertise	Research/ Consultancy Capabilities/ Specialization
1.	Prof. V. Verma	Prof. , Head, SoBT& Dean, FoE	Plant Cytogenetics & Molecular biology
2.	Dr. Sharada M. Potukuchi	Associate Prof. & Academic Coordinator, SoBT	Plant Tissue Culture & Genetic Engineering
3.	Dr. Ratna Chandra	Assistant Prof.	Plant Genetic Engineering,

			BtTransgenics
4.	Dr. Anil Kumar	Assistant Prof.	Organic Chemistry
5.	Dr. Preeti Sharma	Assistant Prof.	Microbial Biotechnology & Environmental Science
6.	Dr. Samantha Vaishnavi	Assistant Prof.	Plant Molecular Biology and Genetics
7.	Dr. ShafaqRasool	Assistant Prof.	Biotechnology
8.	Mr. Parvez S. Slathia	Assistant Prof.	Bioinformatics & Biotechnology
9.	Mr. Arvind Yadav	Assistant Prof.	Biochemical Engineering
10.	Dr. InduBushan	Assistant Prof.	Biochemistry & Biotransformation
11.	Dr. Raju Shankarayan	Assistant Prof.	Biochemical Engineering & Biotechnology
12.	Dr. Vinod Singh	Assistant Prof.	Immunology
13.	Dr. Swarkar Sharma	Assistant Prof.	Genetics and Genomics of Human Disorders, Next Generation Sequencing
14.	Dr. Ekta Rai	Assistant Prof.	Molecular Genetics of Human Disorders, Diabetes
15.	Dr. Rakesh Kumar	Assistant Prof.	Cancer Biology DNA Damage Response
16.	Dr. NarenderBairwa	Assistant Prof.	Biotechnology & Genetics

C. List of equipments available in School for Research & Consultancy:

S. No.	Name of Lab	Name of the Lab Equipment	Qty	Company
1.	Bioinformatics Lab, A-101, Block A BIF Lab	HP Scanner G 4010	01	HP
2.		Sun Servers for BIF i) High End Server ii) Work Station	01 03	M/s DM System
3.		Bio box software Switch Ethernet Warrant enhancement for X2200 M2 & Ultra 20 M2	01	Neatgear, Linksys -
4.		Photocopier	01	Cannon
5.		Dell Desktop Optiplex 330 computer	06	Dell
6.		HP Compaq Desktop computer	07	HP
7.		Dell Desktop Computer	05	Dell
8.		5 KVA ONLINE UPS	02	APC, Company
9.		Ethernet switch	01	Digisol
10.		Interactive Board	01	HCL

10.	Tissue Culture Lab, A-107, Block A	Analytical Balance	01	Denver Instrument
11.		Glass Bead Sterilizer	01	Shimas Innovative System
12.		Automatic Electronic Ignition Gas Burner	01	Genix Biotech Asia Pvt. Ltd.
13.		Refrigerator Twin door (335 Lt)	01	LG
14.		Refrigerator Twin door (422Lt)	01	LG
15.		Hot Air Oven	01	Accumax India
16.		Microwave Oven	01	Samsung
17.		HPLC (High Pressure Liquid chromatography)	01No.	Hitachi
18.		Laminar Air Flow (Horizontal)	01	Khera Instruments
19.		Incubator Shaker	01	Khera Instruments
20.		Tissue Culture Rack	02	Khera instruments
21.		Tissue Culture Rack	02	Vista Biocell
22.		Hot Plate Single Top Heating	01	Macro Scientific
23.		Orbital Shaker	01	Khera instruments
24.		Table top Shaker	01	Khera Instruments
25.		Voltage Stabilizer (3KVA)	01	Local make
26.		Digital Camera	01	Sony
27.		Cyber Shot Camera	01	Sony
28.	Molecular Biology Lab, A-104, Block A	Vaccum Pump	02	Perfit
				Reviera
29.		Midi-submarine electrophoresis system	02	Bangalore Genei
30.		Electrophoresis power supply	01	Biomatrix Technologies
		Servo Stabilizer 4 KVA	01	Autoronica
31.		Rocker Platform	02	Bangalore Genei
32.		Hand Held Gas Operated Ampoule Sealing Torch	01	Biomedica Laboratories, New Delhi
33.		Gas Cylinders for Sealing Torch	02	-
34.		Vertical Slab Midi Gel Electrophoresis System with High Voltage Power Supply	02	Khera Instruments Pvt. Ltd., New Delhi
			01	
35.		Horizontal Laminar Flow Bench	01	Khera Instruments Pvt. Ltd., Delhi
36.		Magnetic Stirrer with Hot Plate	02	Tarsons
37.		Ultra Pure Water Purifier	01	Millipore

		System		
38.		Vortex Mixer	02	Biolinkk
39.		Rotor A-2 MTP, Make Eppendorf	01	-
40.		Rotor F-35-630, Make Eppendorf	01	-
41.		Fast Protein Liquid Chromatography System	01	Wipro GE Healthcare, Chandigarh
42.		Fireboy Plus Electronic Bunsen Burner	02	Biomedica Laboratories, New Delhi
43.		UV Hand Held Torch with Dual Wavelength and UV Safety Glasses	01	Genetix
44.		Microwave Oven	01	LG, Capacity 34 Ltrs.
45.		JULABO Microprocessor Based Refrigerated and Heating Circulator	01	Siskin Instruments Co. (P) Ltd., New Delhi
46.		-20°C Deep Freezer	01	Vest Frost
47.		NBS Refrigerated Incubator Shaker	01	Innova 42R, M/s New Brunswick, USA, M/s. Eppendorf India Ltd., New Delhi
48.		Electroporator	01	Eppendorf India Ltd., New Delhi
49.		Thermocycler (MJ Mini 48 well)	01	Bio-Rad Pacific Ltd., USA
50.		Gel Documentation System	01	Bio-Rad Pacific Ltd., USA
51.		Double Beam UV VIS Spectrophotometer	01	Labindia Instruments Pvt. Ltd., Mumbai
52.		Boiling Water Bath with Thermostat (Rectangular)	01	Perfit
53.		Single Distillation Unit with automatic cut off, Capacity-10lit. LABCO make	01	D.S. Enterprises, Jammu
54.		Refrigerator	01	LG
55.		Hot Air Oven	01	Narang Scientific Works Pvt. Ltd., New Delhi
56.		pH Meter	01	Metler Toledo
57.		Ultrasonic Cleaner with degas Features	01	Cole Parmer
58.		Gel Electrophoresis System & its accessories	01	GE Healthcare Biosciences Ltd
59.		Precision Electronic Balance (BL220H)	01	Shimadzu

60		Electrophoresis Power Supply	01	Genei Merck
61.		Microcentrifuge (spinwin MC-02)	01	Tarsons
62.		Digital Camera (DSC-HX100)	01	Sony
63.		Vertical Gel Electrophoresis system	01	CBS Scietific, Imperials Life sciences
64.		Midi submarine Electrophoresis System	01	Genei Merck
66.		Shaking Water Bath	01	DaihanLabtech India Pvt. Ltd., Hyderabad
67.	Molecular Biology Lab, A-104, Block A	Master Cyler Gradient	01	Eppendroff India
68.		High Speed Refrigerated Centrifuge	01	Sigma Laborzentrifugen
69.	Microbiology Lab, A-103, Block A	Gas Liquid Chromatograph	01	Nucon
70.		Microbial Fermentor	01	Sartorius
71.		Incubator Shaker	02	New Brunscik
72.		Deep Freezer -80	01	New Brunscik
73.		Weighing balance	01	And company
74.		Microscope	05	Olympus
75.		Centrifuge	01	Sigma
76.		Water bath shaker	01	Labtech
77.		Laminar Air flow	01	Thermodyname
78.		pH meter	01	Mettler Toledo
79.		Lyophilizer (Freeze Dryer)	01	Diahan Lab Tech
80.		Refrigerator	01	LG
81.		Homogenizer Daihan Model No-15A	01	Biogene Scientific
82.		Heating Mantle	02	ABC
83.	Mass Array Lab - I, A- 105, Block A	Mass Array Compact System along with accessories: a) Mastercycler b) Centrifuge with rotor A-2 MTP c) Microcentrifuge d) Mini Lab Roller e) Online UPS with 32 Battery	01	Sequenom/Aceprobe Technologies a) PRO384, b) 5430, Eppendroff c) Spinwin MC-00 d) SO 100-230V-VX-100 e) APC
84.		RT PCR	01	Agilent Stratagene Mx3005
85.		Bioanalyzer	01	Agilent
86.		Vortex Mixer	01	IKA MS3 Vortexer
87.		Centrifuge	01	ThermoscientificBiofug e primo R
88.		Centrifuge	01	Eppendroff 5418
89.		Water bath	01	Julabo F25

90.		Vortex mixer	01	Labnet
91.		Minispin	01	Eppendroff
92.		CO ₂ Incubator	01	New Brunswick
93.		CO ₂ Incubator	01	Ectanav
94.		Spinwin	01	Tarson MC-00
95.		Refrigerator -20	01	Vestfrost
96.		Refrigerator 4	01	LG
97.	Mass Array Lab - II, A- 105, Block A	Master Cycler	01	Eppendroff
98.		Biospectrometer	01	Eppendroff
99.		Gel Doc EZ Imager	01	BioRad
100.		Electrophoresis Unit with power supply	01	BioRad
101.		Electrophoresis Unit with power supply	01	-
102.		Test Tube Shaker	01	Vortex Shaker
103.		Mix Mate	01	Eppendroff
104.		Hot Plate	01	COD Digestion Apparatus
105.		Water Bath	01	Serological
106.		Ultra Low Temperature Freezer	01	New Brunswick U410 premium
107.		Hot Air Oven	01	Universal
108.		Autoclave	01	Biotechnologies
109.	Chemistry Lab I & II, COS-104 & 106, COS Building	Heating Mantle 250 ml	03	Labco
110.		Melting Point Apparatus	01	Analab Scientific Instruments Pvt. Ltd.
111.		Distillation Unit 5000 ml	01	Khera
112.		High Precision Water Bath with Stirrer	01	Yorko
113.		Vacuum Pump	01	Perfit
114.		Water Bath 6 holes	02	Perfit
115.		Rotary Vacuum Evaporator	01	Perfit
116.		Magnetic Stirrer with Hot Plate	02	Perfit
117.		pH Meter	02	Mettler Toledo, Deluxe
118.		UV-Cabinet	01	Labco
119.		Flash Chromatography,	01	Biotage
120.		Refrigerator	01	Videocon
121.		Digital Weighing Balance	01	Shimadzu
122.		Magnetic Stirrer with Hot Plate	04	IKA
123.		Hot Air Oven	01	Accumax India
124.		UV Cabinet	01	VidyaUdyog
125.		Vacuum pump	01	Buchi

126.		Water Jet Pump	01	JET-VAC
127.		Vacuum Pump	01	HHV
128.		Oil Bath with Magnetic Stirrer 250 ml	01	Ganesh Scientific Industries
129.		Oil Bath with Magnetic Stirrer 500 ml	01	Ganesh Scientific Industries
130.		Heating Mantle 250 ml	01	Perfit
131.		Oil Bath cum Magnetic stirrer	01	Raaga Industries
132.		Fumehood	01	-
133.	Microbiology Lab, COS-203, COS Building	Binocular Microscopes (Model H-i20)	04	Olympus
134.		Water bath (Round)	01	Perfit
135.		Water bath (round) 250x150mm Brass	01	Perfit
136.		Dancing Shaker	01	Tarsons
137.		BOD Incubator	01	PCI Analytics
138.		Fumehood	01	-
139.		Refrigerator (Double Door)	01	Videocon
140.		Heating mantle (5 litre)	02	Perfit
141.	Molecular Biology Lab, COS-205, COS Building	Refrigerator (Double Door)	01	Videocon
142.		Weighing Balance	01	AVON
143.		Micro Centrifuge	01	Spinwin
144.		Shaking Incubator	01	Labtech
145.		Dessicator	01	-
146.		LPG Cylinder	01	Indane
147.		Microscope	01	Olympus
148.		Heating Mantel	01	-
149.	Autoclave & Media Room, COS Building	Vertical Autoclave	01	Biogen
150.		Pressure Cooker	01	Hawkins
151.		LPG Cylinder	01	Indane
152.		Gas Stove (Single Burner)	01	Inalsa
153.		Fire Extinguisher	01	-
154.	Biotechnology Lab, COS-201, COS Building	Spinwinmicrocentrifuge	01	Tarsons
155.		Spinot Magnetic stirrer cum hot plate	01	Tarsons
156.		Mini Dual Vertical Electrophoresis Unit	01	Tarsons
157.		Midi submarine electrophoresis unit with accessories	01	Tarsons
158.		Mini submarine electrophoresis unit with accessories	01	Tarsons
159.		Electrophoresis power supply	02	Tarsons

		unit		
160.		Spinbit magnetic stirrer-motorless	01	Tarsons
161.		Heater	01	Local make
162.		BOD incubator	01	Khera Instruments
163.		Digital spectrophotometer	01	Electronics India Ltd.
164.		Refrigerator	01	Videocon (Prashast Electronics, Jammu)
165.		pH meter (model 6500)	01	Merck (Eutech Instruments)
166.		Water Bath	01	Perfit India (Gupta Scientific Industries)
167.		Heating mantle (10 litre)	01	Labco India (D. S. Enterprises)
168.		Deep freezer (-20°C)	01	Vestfrost (Hindustan Trading and Technologies Worldwide)
169.		PCR (Mastercycler)	01	Eppendorf India Ltd.
170.		Midi submarine Gel electrophoresis unit with accessories	01	Medox
171.		Vertical slab dual mini electrophoresis (PAGE)	01	Medox
172.		Electrophoresis power supply	01	Medox
173.	DoBT Store, COS-202, COS Building	Water bath 12 holes	01	Perfit
174.		Heating mantle 100 ml	06	Perfit
175.		Heating mantle 250 ml	06	Labco
176.		Heating mantle 500 ml	05	Labco
177.		LPG Cylinders Need to be returned to the supplier	16	HP
178.		LPG Cylinders	06	Indane

D. List of Software available for in School for Research & Consultancy:

S.No.	Name of Software	Details	Project No.
1	PyMOL,	Protein 3d structure Visualization tool	PR-15
2	Desmond Molecular Dynamics Tool	All atom classical molecular dynamics simulations software	PR-15
3	Virtual Molecular Dynamics	Visualization and analysis of molecular dynamics simulation trajectories	PR-15
4	Autodock	Protein drug docking	PR-15
5	PyRx	High throughput protein drug	PR-15

		docking	
6	R studio	Data mining and plotting	PR-15
7	DNA STAR	Analysis of DNA sequencing results	PR-15

E. Details of testing facilities available in the School

S.No.	Name of facility	Details	Project No.
1.	Water Testing	Biochemical Analysis	Nil

F. MOUs

Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
MoU between SMVDU & Vaishnavi Bio-Tech Ltd.	2014	5 years	Placement and training related activities	Placement of students of B. Tech. (IBT) 3 students placed
MoU between SMVDU & Prathista Industries Ltd.	2014	6 years	Visit of students and Faculty of SoBT for 2 weeks Training Program at Prathishtha Industries Ltd., Hyderabad	03 (Dr. Sharada Potukuchi, Mr. Parvez Slathia, Mr. Arvind Yadav) 43 [Students of B. Tech. Final Year (13) + Students of M. Sc. Final year (30)] All the students successfully completed their allotted projects within the stipulated time period of 15 days and worked on different topics like: Fermentative production of calcium propionate by using <i>Propionibacterium freudenreichii</i> , Industrial Production of calcium gluconate with simultaneous production of glucose oxidase and catalase by using <i>Aspergillus niger</i> , Conversion of fermentable sugars from lignocelluloses by <i>Aspergillus niger</i> , Production of Phytase from <i>Aspergillus niger</i> , Enhancement of vitamin B ₁₂ yield through fermentation, Conversion of proteins into amino acids by enzymatic process, Glycine

				production from soyabean hydrolysates, Fermentative production of yeast powder and glutamic acid and Production of probiotics from <i>Lactobacillus</i> . It was a good learning experience for all of the students to work at Prathistha Industries Limited (PIL), Hyderabad.
MoU between SMVDU & SKUAST-J	2014	3 years	Visit of Students and Faculty from both the Institutes	Prof. Verma, Dr. SharadaPotukuchi DELivered Lectures, as Expert for Practical Exam, Dissertation Via, Ph. D. Viva voce, etc.
MoU between SMVDU & IIIM-J	2015	3 years	Visit of Students and Faculty from both the Institutes Joint Students for Ph. D., Research work, Projects, etc.	Every year the Third year B. Tech. (BT) and First year M. Sc. (BT) students are taken to IIIM, J for demonstration of experiments in Cell Culture (Plant & Animal) and Instrumentation facility Students undertake Summer Projects (2 months) and Final Semester Major Project (4 months) at IIIM, J.
MoU between SMVDU & Prathista Industries Ltd. & Universite Laval	2008	5 years	Visit of Faculty to University of Laval	Prof. V. Verma visited the University and held meetings for collaboration on various joint research projects.
MoU between SMVDU & Thapar University, Patiala	2009	5 years	For facilitation of M. Sc. (Biotechnology) Admission	Visited by Prof. V. Verma several times. The List of Candidates appearing in the M. Sc. (Biotechnology) Admission Test conducted by thaparUniv. was shared with SMVDU, for selection of Merit score of aspiring students.
MOU between Laval University, Canada, SMVDU and Patishtha Industries	2008	5 years	Visit of Faculty to University of Laval	Prof. V. Verma visited the University and held meetings for collaboration on various joint research projects.

G. List of Research projects submitted to funding agency:

- I. Research Project Proposal entitled 'Genetic Characterization of Autism Spectrum Disorders (ASD) to SERB-DST (Dr. Rakesh Kumar)
- II. Research Project Proposal entitled "Preparation of Heparin Oligosaccharides Using Immobilized Heparinase Bioreactor" to SERB-DST (Dr. InduBushman)
- III. Research Project Proposal entitled 'Genetic Effect of Telomere Shortening on Cardiomyopathy' to SERB-DST (Dr. Rakesh Kumar)
- IV. Research Project Proposal entitled 'Therapeutic interaction of PARP and telomerase inhibitors: Role in cancer treatment' to DBT (Welcome DBT-Intermediate Fellowship) (Dr. Rakesh Kumar).
- V. Research Project Proposal entitled 'Cancer genome analysis of patients from North and North-East India' to DBT, GOI (Dr. Rakesh Kumar).
- VI. Research Project Proposal entitled 'Genetic factors and its association with risk of oral carcinoma in North India' to WOS-B, DST (Dr. Rakesh Kumar).
- VII. Research Project Proposal entitled "Genetic factors and its association with risk of metabolic syndrome and hepatocellular carcinoma in North India" to WOS-B DST, Govt. of India (Dr. Rakesh Kumar).
- VIII. Research Project Proposal entitled 'Validation of biochemical studies, development of regeneration strategies for conservation of medicinally important plant *KickxiaRamosissima*' to SERB-DST) Dr. Sharada M. Potukuchi).
- IX. Research Project Proposal entitled 'Functional analysis of cancer related F-box motif encoding genes and SNP variations using CRISPER-Cas9 technology and heterologous expression in *S.cervisiae*' to DBT, GoI (Dr. Narendra K Bairwa).
- X. Research Project Proposal entitled 'Association of Genetic factors with risk of metabolic syndrome and hepatocellular carcinoma in north and northeast India-A comparative study' to DBT, GoI(Dr. Rakesh Kumar).
- XI. Research Project Proposal entitled 'Exploration of microflora from North Western Himalayas (Jammu & Kashmir) for isolation of novel heparinase' to SERB, DST, GOI (Dr. InduBushman).
- XII. Research Project Proposal entitled 'Bioactive potential of endophytes from selected plants of Jammu province (J&K) in Himalayan region' to J&K State Council for Science and Technology (DST, J&K State, GoI) (Dr. InduBushman).
- XIII. Research Project Proposal entitled 'Role of Inflammation Associated Genes Polymorphisms in Predisposition to Type 2 Diabetes and Type 2 Diabetes Associated Nephropathy Complication in North-West Population of India' to DST-SERB, GoI (Dr. Vinod Singh).
- XIV. Research project entitled 'Isolation and Identification of navel metabolites from endophytic microorganisms of selected medicinal plants' to SERB (Dr. Shardha M. Potukuchi).
- XV. Research project entitled 'Radio and chemo targeting of HSP genes can induce programmed cell death in tumors' to BRNS-Govt. of India (Dr. Rakesh Kumar).
- XVI. Research project entitled 'Poly (ADP ribose) polymerase (PARP) in relation to human cancer

through targeting the radio sensitizing effects to BRNS-Govt. of India (Dr. Rakesh Kumar).

xvii. Research project entitled 'Molecular basis of Thalassemia in north India' to DBT- Govt. of India (Dr. Rakesh Kumar).

xviii. Research project entitled 'Advance molecular analysis in human infertility to DST- Govt. of India (Dr. Rakesh Kumar).

H. Centre at the School:

S.No.	Name of Centre	Coordinator	Facilities available
1.	*Centre for Advance Research (CAR)	Dr. Rakesh Kumar-PI Dr. Swarkar Sharma, Co-PI	Recently Established
2.	Bioinformatics Infrastructural Facilities	Prof. V. Verma	HP Scanner G 4010 Sun Servers for BIF i) High End Server ii) Work Station Bio box software Switch Ethernet Warrant enhancement for X2200 M2 & Ultra 20 M2 Photocopier Dell Desktop Optiplex 330 computer HP Compaq Desktop computer Dell Desktop Computer 5 KVA ONLINE UPS Ethernet switch Interactive Board

I. Research

FY	Number of International Journal papers	Number of national Journal papers	Number of FDP organized	Number of other events (Conference/Workshop/Seminar etc.)
2018-17	22	0	0	4
2017-16	23	0	0	4
2016-15	16	1	0	2
2015-14	23	0	0	3
2014-13	15	0	0	3

ICMR Center for Advance Research(CAR), SMVDU, Katra

"To Address & Promote Human Reproductive Health in Jammu and Kashmir Region"

(A multi institutional Project for the State of Jammu and Kashmir)

For the first time in the history of Jammu and Kashmir, four of its Universities have been sanctioned a major research funding to the tune of Rs. 9.1crores to establish a Multi-institutional Centre for Advance Research (CAR) in Human Reproductive health by the **Indian Council of Medical Research**

(ICMR), the apex body for the formulation, coordination and promotion of biomedical research in India. The participating Universities include; Shri Mata Vaishno Devi University, Katra, University of Jammu, Central University of Jammu and University of Kashmir. The Lead Investigators of the Centre include, **Dr. Rakesh Kumar from School of Biotechnology, SMVDU**; Professor Manoj Dhar, School of Biotechnology & Institute of Human Genetics (presently Vice Chancellor), University of Jammu; Dr. Audesh Kumar from Centre of Molecular Biology, Central University of Jammu and Professor Raies Qadri, Department of Biotechnology, University of Kashmir. Dr. Swarkar Sharma of School of Biotechnology, SMVDU Katra and Dr. Sanjana Kaul from School of Biotechnology, University of Jammu are co-investigators in their respective centres.

SMVDU has been nominated as the Nodal centre, with Dr. Rakesh Kumar as the co-ordinator of the and all other centres will be designated as Sub-Centres.

A detailed understanding of health challenges, especially in the area of Reproductive Health, need addressed within the state of J&K to ensure that policies implemented in the area receive appropriate response and result in a fruitful outcome. Incidentally, there is **no concrete researched data available public or medical database regarding the incidence of infertility or birth defects in the population of Jammu and Kashmir.**

There is no published data from Jammu region.

The center has following objectives:

- **Training and skill development: Human Resource Development.**
- **Encouraging Inter-Institutional Collaboration: Development of regional networks.**
- **Education and Awareness: Data Collection and Compilation.**
- **To access and evaluate the incidence and prevalence of Reproductive health disorders/diseases in the state of Jammu and Kashmir.**
- **Genetic analysis of the recruited subjects.**

The Institute will be recognized as a ICMR Centre of Advanced Research in Reproductive Health SMVDU, Katra “To Address & Promote Human Reproductive Health in Jammu and Kashmir Region. Research and Training in Reproductive Health, and also as a centre for Training in Diagnosis and Management of Infertility and spontaneous Abortions.

J. Patents:

Sr. No.	Year	Reference number	Title	Inventors & co-inventors	Patent Authority	Filing status with Patent Authority	Application Status
1.	2017	201711033513	Electrical Conductivity Based Detection and Quantification of Presence of Proteins in Blood/Body Fluid Samples	Swarkar Sharma, Ekta Rai, Vinod Singh, Rakesh Jha, Sanjeev Jain	Indian Patent Office	Provisional Filed	Awaited
2.	2018	201811014220	Technical Modifications for a Cheaper Hyperthermic Intraperitoneal Chemotherapy (HIPEC) Device	Swarkar Sharma, Sandeep Koul (SMVDNSH)	Indian Patent Office	Provisional Filed	Awaited
3.	2018	201811041582	PCR TaqMan assay based Kit for Telomere length measurement	Swarkar Sharma, Itty Sethi, Ghulam Rasool, Ekta Rai	Indian Patent Office	Published	Awaited
4.	2017	201711043149	A Novel Strategy to Increase The Biogas Production.	Chetanya, Swarkar Sharma, Durgesh Satyam	Indian Patent Office	Published	Awaited
5.	2018	201811020588	A Polymerase Chain Reaction (PCR) kit and process for making the same	Swarkar Sharma	Indian Patent Office	Published	Awaited

Name of the School: School of Mathematics

Year of establishment: 2007

Contact: 01991-285524 (2504)

Brief Profile of School:

The School of Mathematics came into existence in 2007. At present, the School has 8 faculty members. Right from its inception the School has striven to set high standards of teaching and research. It has been the cherished goal of the School to inculcate in the students a desire to excel, to demonstrate originality and to develop a sense of responsibility towards the society. The School continuously reviews and monitors the curriculum of its academic programs as per demands of time.

For M.Sc program, various courses related to latest developments in mathematics, that include Optimization Techniques, Discrete Mathematics, Numerical Methods, Space Mechanics, Game Theory, Decision Theory are offered besides core courses like Algebra, Analysis, Topology, Differential Equations, Differential Geometry etc.

For Ph.D program, the School of Mathematics presents a wide spectrum of research interests ranging from very abstract to practical aspects. Active research is being pursued in the areas of Functional Analysis, Operator Theory, Algebra, Ring Theory, Topology, Statistical Inference & Sampling Theory and Queuing Theory.

The faculty members of the School of Mathematics are currently engaged in the research in the areas like Algebra, Topology, Functional Analysis, Operator Theory, Sequence Series and Summability Theory, Queuing Theory, Sampling Theory, Information Theory and Differential Geometry.

Objectives of the School:

- To provide education and training of excellent quality both at undergraduate and postgraduate levels.
- To ensure that the University achieves and maintains an international standing in both teaching and research.
- To promote study and research in new and emerging areas and encourage academic interaction of the faculty and students at national and international levels.
- To encourage close collaboration with industry and facilitate the application of research for commercial use and for the benefit of society.

Programs offered by the School:

Apart from providing support to Faculty of Engineering for B.Tech/ M.Tech./ MCA programmes, the Department offers the following programmes.

- **M.Sc. (Mathematics)** since 2007 with intake of 30 students each year.
- **Ph.D**

A. List of research projects sponsored by the government/ non- government agencies:

Name of the project/ endowments, chairs	Name of the principal investigator / co investigator	Name of the funding agency	Type (government/non-government)	Department of principal investigator/ co investigator	Year of award	Funds provided (INR in lakhs)	Duration of the project
Transparency of skew	Dr. V. K. Bhat	Department	Government	School of Mathematics	2010	10.29	3 years

polynomial rings over Noetherian rings		of Atomic Energy, Mumbai					
Associated prime ideals and minimal prime ideals of skew polynomial rings	Dr. V. K. Bhat	UGC	Government	School of Mathematics	2011	2.0	2 years
Ore Extensions over Noetherian rings	Dr. V. K. Bhat (Visiting Expert)	Kuwait University	Government	School of Mathematics	2015	6.5	3 years
Completely prime ideals of skew polynomial rings	Dr. V. K. Bhat	SERB, DST	Government	School of Mathematics	2017	4.43	3 years
A study of Orlicz sequence spaces and their operators	Dr. Kuldeep Raj	CSIR	Government	School of Mathematics	01-04-2018	20	3 Years
Transient solution of Markovian Queuing Models with Customer Impatience and Retention of Reneged Customers	Dr. Rakesh Kumar	UGC, New Delhi	Government	School of Mathematics	2015	9.89	3 years

B. Faculty Research Consultancy Expertise/ Specialization:

S.No.	Faculty	Area of expertise	Research/ Consultancy Capabilities
1.	Prof.(Dr.) V. K. Bhat	Ph.D.	Algebra
2.	Dr. A. K. Das	Ph.D.	Topology
3	Dr. UdayPratap Singh	Ph.D.	Image Processing
4	Dr. Kuldeep Raj	Ph.D.	Operator theory

5	Dr. Sandeep Bhogal	Ph.D.	Sampling theory
6	Dr. Rakesh Kumar	Ph.D.	Operations Research
7	Dr. Sandeep Sharma	Ph.D.	Differential Geometry
8	Dr. Surender Singh	Ph.D.	Information theory

C. List of Research projects submitted to funding agency

1. A study on variants of dense normality” Submitted to DST on 31st March 2018 for funding by Dr. A. K. Das.
2. Queuing Systems with Reverse Balking and Reneging with probability of Retention submitted to NBHM (2017) by Dr. Rakesh Kumar.
3. A new Family of estimators for estimating the population mean in the finite population in sample surveys to National Board for Higher Mathematics by Dr. Sandeep Bhogal.
4. A study of Geometry of some light like manifolds and hypersurfaces’ submitted to National Board for Higher Mathematics, Mumbai by Dr. Sandeep Sharma.

D. Research

FY	Number of International Journal papers	Number of national Journal papers	Number of other events (Conference/Workshop/Seminar etc.)
2018-17	37	-	-
2017-16	24	-	02
2016-15	29	-	01
2015-14	33	1	-
2014-13	48	1	-

Name of the School: School of Physics

Year of establishment: 2004

Contact: 01991-285524, Ext. 2505

Brief Profile of School:

Introduction

- Established in the year 2005-2006 as School of Applied Physics & Mathematics.
- Evolved as a separate full-fledged School in 2009 (School of Physics).
- School prepares the students to pursue a successful career in the field of physics and its applications in daily life.

Objectives

- To disseminate scientific knowledge to students and to shape the intellectual growth of the institution.
- To provide education and training of excellent quality both at undergraduate and postgraduate levels.
- To ensure that the University achieves and maintains an international standing in both teaching and research.
- To promote study and research in new and emerging areas and encourage academic interaction of the faculty and students at national and international levels.

Programmes Offered

1. Master of Science (M.Sc.) in Physics. Two year course with following three specializations

- Condensed Matter Physics (CMP)
- Electronics
- Atomic and Molecular Physics (AMP)

2. Doctor of Philosophy (Ph.D.) in Physics

- Condensed Matter Physics (Experimental)
- Atomic and Molecular Physics (Theoretical)

Courses Offered to Other Departments

- **Engineering Physics (PHL 1012)**
- B. Tech. 1st year students

A. List of research projects sponsored by the government/ non- government agencies:

Name of the project/ endowments, chairs	Name of the principal investigat or/ co investigat or	Name of the funding agency	Type (government/ non- government)	Departme nt of principal investigat or/ co investigat or	Year of award	Funds provided (INR in lakhs)	Dura tion of the proje ct
Estimation of	Dr. S.K.	ISRO	Government	Physics	2017	Rs. 36.80	2017-

deformation and strain rate in Jammu & Kashmir and Himachal Pradesh Himalaya using IRNSS Geodesy.”	Wanchoo (PI)					Lacs plus 12 receivers	20
Physics of earthquakes and delineation of Himalayan thrust faults”	Dr. S.K. Wanchoo (PI)	UGC	Government	Physics	2015	13.7 Lacs	2015-18
“Earthquakes without frontiers (EWF)	Dr. S.K. Wanchoo (Indian Co-PI)	NERC, UK	UK Government	Physics	2015	GBP 25569	2015-17
“Earthquake hazard evaluation in Jammu and Kashmir Himalaya and Western Indo-Gangetic Plains	Dr. S.K. Wanchoo (Indian PI)	UGC	Indo-UK Government (UGC-UK IERI)	Physics	2015	Rs. 17,81,400/-	2015-16
Seismic structure, active faulting and ground motion evaluation in NW India	Dr. S.K. Wanchoo (Indian PI)	NERC, UK	UK Government	Physics	2014	GBP 18500.	2014-15
Biological-Activity-Predictions, X-ray Structure Analysis and Molecular Interactions in Some Organic Compounds of Medicinal Importance	Dr. Kamni	UGC	Government	Physics	2015	Rs.6,03,000/-	2015-18
Synthesis and study of electronic structure of transition metal doped and undoped Eu ₂ O ₃ thin films(PR-82)	Dr. Ram Prakash	UGC-DAE CSR, Indore	Government	Physics	2015	Rs. 8,83,410/-	2015-2019

B. List of major Consultancies taken by School

Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Year	Revenue generated (INR in Lakhs)
Dr. YugalKhajuria	Jambu Zoo (Jagti, Jammu & Kashmir)	Department of Wildlife Protection, J&K	2018	----

C. Faculty Research Consultancy Expertise/ Specialization:

S.No.	Faculty	Area of expertise	Research/ Consultancy Capabilities
1	Dr Ashok Kumar Sharma Head, SoP	Space Physics, Astronomy, seismology, Thin films	Space Physics, Astronomy, seismology, Thin films
2	Dr. S. K. Wanchoo	Geophysics, Material Science/Electronics	Geophysics, Material Science/Electronics
3	Dr. YugalKhajuria	Atomic and Molecular Physics	Atomic and Molecular Physics
4	Dr. Jitendra Sharma	Materials Science	Materials Science
5	Dr. Kamni	Materials Science/X-ray Crystallography	Materials Science/X-ray Crystallography
6	Dr. Vivek K Singh	Laser and Spectroscopy	Laser and Spectroscopy
7	Mr. Pankaj Biswas	Electronics, Nanophosphors	Electronics, Nanophosphors
8	Dr. Ram Prakash	Materials Science	Materials Science
9	Dr. Onkar Nath Verma	Electronics and Experimental Condensed Matter Physics	Electronics and Experimental Condensed Matter Physics
10	Dr. Surender Pratap	Theoretical Condensed Matter Physics	Theoretical Condensed Matter Physics

D. List of equipments available in School for Research & Consultancy

S.No.	Name of Equipment	Details	Project No.
1	UV-Vis Spectrometer	To find the optical properties of the material, to check the impurities in the sample, electronic transition etc.	PR-59
2	Carry Eclipse SpectroFluoro Meter	Excitation and Emission spectra, Decay curve and impurities present in the sample etc.	PR-51
3	Dynamic Light Scattering Specrometer	Particle size distribution	University Fund
4	FTIR SHIMAOZU IR Tracer – 100	Molecular structural information	University Fund
5	Thermo gravimetric Analyzer	Weight-loss information and thermal stability.	University Fund

E. List of Software available for in School for Research & Consultancy

S.No.	Name of Software	Details	Project No.
1	Q-Chem Software	Molecular Calculation	PR-88
2	Gaussian Software	Molecular Calculation	PR-67

F. Research

FY	Number of International Journal papers	Number of national Journal papers	Number of other events (Conference/Workshop/Seminar etc.)
2018-17	1	-	02
2017-16	12	-	02
2016-15	18	-	02
2015-14	23	-	01
2014-13	28	1	01

Name of the School: Computer Science and Engineering

Year of establishment: 2004

Contact: 01991 285524

Brief Profile of School: Computer Science & Engineering:

The School of Computer Science & Engineering has been set up to impart training of the highest standards to the students, in the field of computers, thus preparing them to meet the exacting demands of the highly competitive global industrial market.

The School is currently focused on providing B.Tech. & M.Tech. programs which cover exhaustively the area of Computer Science & Engineering

A. List of research projects sponsored by the government/ non- government agencies:

Name of the project/ endowments, chairs	Name of the principal investigator / co investigator	Name of the funding agency	Type (government /non-government)	Department of principal investigator / co investigator	Year of award	Funds provided (INR in lakhs)	Duration of the project
A Secure and QoS Oriented Routing Protocol for MANETS	Dr. Ajay Koul, PI	UGC	Government	Computer Science & Engineering	2012	7.68 Lakhs	3 years
Automatic monitoring of plants based on leaf segmentation	Dr. Abhishek Gupta	UGC	Government	Computer Science & Engineering	2018	10 Lakhs	2 Years

B. List of major Consultancies taken by School:

Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Year	Revenue generated (INR in Lakhs)
SMVDU, SoCSE	National Mission on Education through ICT (NMEICT) Workshops	IIT Mumbai	2015-16	64, 050 Rupees
SMVDU, SoCSE	National Mission on Education through ICT (NMEICT) Workshops	IIT Mumbai	2014-15	1.28 Lakhs Approx.
SMVDU, SoCSE	National Mission on Education through ICT (NMEICT) Workshops	IIT Mumbai	2013-14	1.88 Lakhs Approx.

C. Faculty Research Consultancy Expertise/ Specialization:

S.No	Faculty	Area of expertise	Research/ Consultancy Capabilities
1	Dr. Manoj Gupta	Bioinformatics and Computational biology	Algorithms
2	Dr. Baij Nath Kaushik	Machine Learning, Soft Computing, Nature Inspired Algorithms	Biological Data Mining, Text Analytics with Machine Learning and Nature Algorithms
3	Dr. Ajay Koul	Adhoc Networks	Security in Adhoc Networks
4	Mr. Manoj Kumar	Database Systems, Computer Networks	Database management systems, Computer Networks
5	Dr. Naveen Gondhi	Computer Network Management & Expert System, Mobile Adhoc Network.	Computer Networking and communication, Web applications
6	Ms. Sonika Gupta	Operating Systems, Data structures	Operating Systems, Data structures
7	Dr. Sunanda Gupta	Data Structures	Computer Simulation & Queues, Data Structures, Object Oriented analysis.
8	Dr. Sakshi Arora	A Soft computing, cloud computing and virtualization	A Soft computing, cloud computing and virtualization
9	Mr. Sanjay Sharma	Computer Architecture, Java Technology, Network security	Computer Architecture, Java Technology, Network security
10	Ms. Pooja Sharma	Java Technologies & Operating Systems.	Java Technologies & Operating Systems
11	Mr. Deo Prakash	Computer Networks, Software Engineering	Computer Networks, Software Engineering
12	Mr. Anuj Mahajan	Software Engineering, Web Information Retrieval	Software Engineering, Web Information Retrieval
13	Mr. Sudesh Kumar	Computer Networks, Network Security.	Computer Networks, Network Security.
14	Dr. Abhishek Gupta	Medical Image Processing, Image Processing	Development of the automation algorithms

D. List of Software available for in School for Research & Consultancy

S.No	Name of Software	Details	Project No.
1	Tetcos Netsim Revision V8	Network Analysis and modeling Software	
2	IBM Rational Rose	Software Engineering Modeling and testing software	
3	MatLab V 2018	To implement various algorithms related to machine learning, image processing etc.	

E. List of Research projects submitted to funding agency

S.no.	Title of the Project	Funding Agency	Duration	Name of Project PI/Co-PI
1	A model for the prediction of land slide hazard in Indian Himalayan Region	National Mission on Himalayan Studies (NMHS), Uttarakhand	3 Years	PI: Dr. Manoj Gupta Co-PI: Dr. Abhishek Gupta and Dr. Baijnath Kaushik
2	Machine Learning Classifiers for modeling and prediction of quality of water.	National Mission on Himalayan Studies (NMHS), Uttarakhand	3 Years	PI: Dr. Baijnath Kaushik Co-PI: Dr. Manoj Gupta

F. Linkage with industry

Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration	Nature of linkage	Name of the participant	Link of the relevant document
Adobe Experience Manager Software	Adobe AEM Lab	2017	1 Year	Training and Placement	Adobe, Faculty and students from SoCSE	S & P

G. Centre at the School

S.No	Name of Centre	Coordinator	Facilities available
1.	Network Centre	Mr. Sudesh Kumar, Assistant Professor, SoCSE	<p>Platform</p> <ul style="list-style-type: none"> 6 Sun X 4100 servers 1 Dell Blade Server Network is backed by Layer 3 Core Switch from Cisco, HP & Huawei, 135 Nos. Layer 2 distribution Switches, CISCO Pix Firewalls for Security, Central Authentication Gateway and Network Management System. <p>Facilities</p> <ul style="list-style-type: none"> Network services like DHCP, DNS, Proxy, Primary Domain controller, Windows Deployment Service Ethernet LAN bandwidth of 1 Gbps from National Knowledge Network (through NMEICT) FullyWi-Fi enabled campus with more than 300 Wi-Fi Access points Hub for NPTEL videos Automated Library Software 'E- Granthalya'

			<p>Management system</p> <ul style="list-style-type: none"> • Virtualization services through Hyper-V Servers • Application servers for Department of Mechanical Engineering, (AutoCAD, Ansys) • Application servers for College of Management. (Prowess CMIE, Capitaline NEO, etc) • The Network Centre has signed a MoU with Google Inc. for providing the Cloud Based Services with over 30 gigabytes of storage, Google Docs, Google Calendar & Google Talk • Over 15 online workshops had already been conducted through virtual Classroom facility under NMEICT using AVIEW and more to come • Biometric Attendance • Research Computing • Website hosting services for university website, live webcast, network dump for software downloads, Vikalp, inspire, online student grievance and Redressal, National Case Study Conference website, Board of student publications, Student affairs council, Tech fest Titiksha, resurgence, Tatva , sport fest Sarang, software freedom day • Computer Service/Repair
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H. Research

FY	Number of International Journal papers	Number of national Journal papers	Number of FDP organized	Number of other events (Conference/Workshop/Seminar etc.)
2018-17	24	-	1	2
2017-16	11	-	-	3
2016-15	14	-	-	3
2015-14	17	-	-	1
2014-13	13	-	-	10

I. Patents

Name of the Patenter	co-inventors	Patent Number	Title of the patent	Application Status (submitted/Published/under evaluation/Granted)	Year of Award of patent
Dr. Abhishek Gupta	Harish Kumar Sardana, Om Prakash Kharbanda, Viren Sardana	14/994044	A method for automatic detection of anatomical landmarks in volumetric data	under evaluation	

Dr. Abhishek Gupta	Harish Kumar Sardana, Om Prakash Kharbanda, VirenSardana	94/DEL/2015	A method for automatic detection of anatomical landmarks in volumetric data	Submitted	
Dr. Abhishek Gupta	BalaChakravarthy Neelapu, Harish Kumar Sardana, Om Prakash Kharbanda, VirenSardana, ShrikanthVasams etti	201711030803	A method for automatic volumetric segmentation of human upper respiratory tract	Submitted	

J. Other significant achievement of the school

- More than 100 Publications in Journal and Conferences.
- Students have done internship at premier institutions like IISC, IITs, ISI Kolkata , BARC, DRDO , ISRO etc.
- Student of 2012 batch awarded fellowship to do six months project work on machine learning at JIST Japan
- Student of final year completed his summer internship in University of BRUNO, CZECH Republic.
- Faculty completed UGC projects and MHRD sponsored projects in collaboration with IIT Roorkee and IIT Kanpur
- MOU with IT industry like EMC and IBM, and institutions of national repute.
- Best paper awards to Faculty in national and international conferences.
- Faculty awarded young scientist award.

Name of the School: Electronics & Communication Engineering

Year of establishment: 2005

Contact:

Brief Profile of School:

The field of electronics is the fastest growing and the most rapidly changing area of technology in the current times. Electronics has become the all-pervasive technology, which finds application in all spheres of engineering including computers, communication, defense, mechatronics, instrumentation, automation, robotics, artificial intelligence, computer networks, satellites, education etc. The use of electronics has brought about a drastic change in the way human civilization exists today.

The school is currently focused on providing B.Tech. & M.Tech. programs which cover exhaustively the area of Electronics & Communication Engineering:

A. List of research projects sponsored by the government/ non- government agencies:

Name of the project/ endowments, chairs	Name of the principal investigator / co investigator	Name of the funding agency	Type (government /non-government)	Department of principal investigator/ co investigator	Year of award	Funds provided (INR in lakhs)	Duration of the project
Active Radar Absorber based on Frequency Slective Surface Active Stealth Technology	Dr. K. R. Jha	DRDO	Government	-	2018	22.87	2yrs
Availability Utilization and digital document of Non-Timber Bioresources for sustainable Rural Livelihood and decision support system of the rural households in the Northwest Himalayas	-	NMHS	Government	Mr. Ashish Suri/Mr. S .B. Kotwal	2018	49	3 yrs
Development of Microbial fuel cell	Dr. Vipan Kakkar	UGC	Government	-	2012	4.47	3yrs

Design modification and analysis of effect of variable quantization on A* Prune, K-MCSP Algorithm for video compression	Dr. Amit K. Pandit	UGC	Government	-	2012	4.46	2yrs
Development of location techniques for two and three dimensional wireless sensor networks	Mr. S. B. Kotwal	UGC	Government	-	2012	1.20	2yrs
Design & Demonstration of a set of algorithm for High Reliability Wireless Data Acquisition & Control	Dr. Sumeet Gupta	ISRO	Government	-	2010	13.27	18 months

B. Faculty Research Consultancy Expertise/ Specialization:

S.No.	Faculty	Area of expertise	Research /Consultancy Capabilities
1	Dr. Kumud Ranjan Jha	Microwave Antenna	Yes
2	Dr. A. K. Pandit	Imaging and Video Processing/ICT Applications	Yes
3	Dr. Sumeet Gupta	Networks & Embedded Systems Design	Yes
4	Dr. Vipin Kakkar	VLSI, Embedded Systems, Video Processing.	Yes
5	Prof. Pritampartha De	Adaptive Signal Processing with application to Wireless Communication	Yes
6	Dr. Manish Sabraj	Control System & digital Signal Processing, Digital communication, control system and signal processing	Yes
7	Dr. R. K. Jha	Wireless Communication, Network Security issues.	Yes
8	Dr. Vijay Kumar	Low Power VLSI Design, Process	Yes

	Sharma	Variation Aware Design	
9	Dr. Sachin K. Gupta	Wireless Networking, Computer Networks, Data Communications, Systems Theory	Yes
10	Dr. Purnima Hazra	Semiconductor devices and circuits, Microelectronic and nanoelectronic devices	Yes

C. List of equipments available in School for Research & Consultancy

S.No.	Name of Equipment
1	VNA
2	Anechoic Chamber
3	Spectrum Analyzer
4	Signal Generator

D. List of Software available for in School for Research & Consultancy

S.No	Name of Software	Details
1.	System Vue Software 5 User License	IoT Kit and Sensors
2.	MATLAB,CADFEKO,QUALNET, MEMSPRO,CST	
3.	MENTOR GRAPHICS SOFTWARE (I)	
4.	MENTOR GRAPHICS SOFTWARE (II)	
5.	COMSOL SOFTWARE	
6.	OPTISYSTEM 14	5 users
7.	CADENCE	
8.	MULTISIM	20 USERS
9.	Xilinx 9.1	PERPETUAL

E. MOUs

Organization with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
Jio	Comm. Lab	2016	Continuing	Course programme for students, training for faculty	-
FICE	5G IOT Lab	2017	3 year	Internship for B.Tech. &M.Tech.h students, workshops & Training programmes for faculty	Students :38 Faculty: 15
SCL	Semi Conductor Laboratory (SCL), Chandigarh	2017	Continuing	Industrial Visit of Students in the Month of Feb, 2018	No. of Students =70 (Including B.Tech ECE &M.Tech ECE) 2. No. teachers participated = 03

F. Linkage with industry

Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration
Jio	Comm. Lab	2016	Continuing
FICE	5G IOT Lab	2017	
SCL	Microelectronic Lab	2017	Continuing

G. Centre at the School

S.No.	Name of Centre	Coordinator	Facilities available
1.	CENIC	Head, SoECE	Wireless Sensor Network Modules, Workstation, Computer Systems

H. Research

FY	Number of International Journal papers	Number of FDP organized	Number of other events (Conference/Workshop/Seminar etc.)
2018-17	75	1	-
2017-16	24	-	-
2016-15	24	-	-
2015-14	22	-	-
2014-13	13	-	1

I. Patents

Sr. No.	Year	Reference number	Title	Inventors & co-inventors	Patent Authority	Filing status with Patent Authority	Application Status
1	2017	201711033513	Electrical conductivity based detection and quantification of presence of proteins in blood/body fluid samples	Swarkar Sharma, Ekta Rai, Vinod Singh, Rakesh Jha, Sanjeev Jain	Indian Patent Office	Provisional Filed	Awaited
2	2018	201811010011	Zonal Based Green Algorithm for Enhancing Battery Lifetime of User	Rakesh Jha, Pimmy Gandotra, Sanjeev Jain	Indian Patent Office	Provisional Filed	Awaited

			Terminals				
3	2017	20171101 4816	Sector based architecture for device-to-device (D2D) communication	Rakesh Jha, Pimmi Gandotra, Sanjeev Jain	Indian Patent Office	Published	Awaited
4	2017	20171101 4817	System and method for reducing interference in a communication network	Rakesh Jha, Akhil Gupta	Indian Patent Office	Published	Awaited
5	2017	20171101 4818	Power optimization with low complexity using scaled beam forming approach	Rakesh Jha, Akhil Gupta	Indian Patent Office	Published	Awaited
6	2018	20181102 3546	General purpose M2M SIM module that enables 4G LTE based communication for internet enabled devices (IOT)	Abhishek Chauhan, Rishav Sharma, Sanchit Gupta	Indian Patent Office	Provisional Filed	Awaited
7	2018	20181103 8418	Region Based Algorithm (RBA) for Secure Harvesting in Ultra Dense Network	Rakesh Jha, Garima Chopra and Sanjeev Jain	Indian Patent Office	Provisional Filed	Awaited

J. Other significant achievement of the school

- a) The Industrial Institutional Partnership in term of sponsored labs in the school.
- b) A Number of patents filed from school.
- c) MOU's with Institutions' of National Importance and Reputed Industries.

Name of the School: School of Architecture & Landscape Design

Year of establishment: 2006

Contact: +91 1991-285634 (Extn: 2378, 2365)
hod.dald@smvdu.ac.in, rajeev.garg@smvdu.ac.in

Brief Profile of School:

The School of Architecture & Landscape Design (SoALD) started in 2006 with the first batch of 40 students. The first three years of the school were spent on shared basis in the buildings of other UG & PG schools of the University. Meanwhile, SoALD faculty members consider themselves fortunate to have got the job of designing the school building under the leadership of First Director of the School Prof.C.L.Razdan. the beautiful design of the building with passionate learning environment was soon ready on paper & the building was ultimately inaugurated on 4th Dec, 2009 by the Chancellor SMVDU & Hon'ble Governor of J&K Sh. N. N. Vohra in presence of First lady of J&K Smt. Usha Vohra, then Vice-Chancellor SMVDU Prof. N. K. Bansal, then Director SoALD Prof.C.L.Razdan & faculty members of school.

So far 07 batches have passed out after underwent studies for B. Arch. course SoALD SMVDU & are well settled in parts of the Globe including Reputed abroad Universities. School is recognized by Council of Architecture, COA New Delhi.

A. List of major Consultancies taken by School

Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Year	Revenue generated (INR in Lakhs)
Ar. Aditya Kumar Singh & Ar. Navin Gupta & Er. (Dr.) V.K. Dogra	Faculty Housing at SMVDU Campus (R1 & R2)	SMVDU, Katra	2014	pro-bono (Cost saved approx. 50,00000/-)
Ar. Aditya Kumar Singh & Er. (Dr.) V.K. Dogra	War Memorial, Samba	Col. Anil Sharma, 24 Grenadiers, Samba (Ministry of Defense, Govt. of India)	2018	50,000/- (In progress)
Ar. Navin Gupta	Master plan of School under SarvShikshaAbhiyaan at Basholi, J&K	SarvShikshaAbhiyaan Scheme	2017	Pro-bono (cost saved approx. 250000/-)
Ar. Navin Gupta	Proposed addition/alteration in the existing building of ChintamaniAshram	Chintamani Ashram Trust	2018	35000/-

	Trust, Katra			
Ar. Navin Gupta , Ar. Abhiney Gupta, Ar. Abhimanyu Sharma, Ar. Vishal Bhatti	Architectural and landscape Design of Jambu Zoo at Jagti, Nagrota, J&K	Deptt. Of Wildlife Protection , J&K	2018	Phase I- 24 Crores with Fee @ 6.5%= 1.56 crores
Ar. Abhiney Gupta	School of Architecture & Landscape Design Building	SMVDU, Katra	2009	pro-bono (Cost approx. 3.86 Crores)
Ar. Abhiney Gupta	Medical Aid Center Building	SMVDU, Katra	2007	pro-bono (Cost approx. 35 lacs)
Ar. Abhiney Gupta	Interior Design for Hotel Tsokar Retreat, Leh	Tsokar Group of hotels	2017	Project cost – 80 lacs and fee Rs. 50,000/-
Ar. Abhiney Gupta	Renovation of Party Hall 1 , Jammu Club	Jammu Club	2017	Project cost – 25 lacs and fee Rs. 55,000/-
Ar. Abhiney Gupta	Basoli Boys Hostel at SMVDU (working DWGS complete set)	SMVDU Katra	2016	Pro-bono basis
Dr. V. K. Dogra	Structural Consultancy for Faculty Housing at SMVDU Campus (R1 & R2)	SMVDU, Katra	2014	pro-bono (Cost saved approx. 9,00,000/-)
Dr. V. K. Dogra	Structural Consultancy for Multi-Level Parking of Super Specialty Hospital Jammu	PWD (R&B) Medical College and Tawi Bridge Division, Jammu	Ongoing	6,30,000/-
Dr. V. K. Dogra	Structural Consultancy for Main Building of District Court Complex, Samba	Police Housing Corporation Jammu	2015-16	4,73,100/-
Dr. V. K. Dogra	Structural Consultancy for the Design of 96 Bedded OBC Hostel at Doda, J&K	PWD (R&B) Special Sub Division, Doda, J&K	2017	99,120/-

Dr. V. K. Dogra	Testing of Bricks	M/s Om Bricks and Tiles Industries	2016-2017	44,880/-
Dr. V. K. Dogra	Design of Boundary Wall along Nallah	SMVDU	2018	pro-bono (Cost saved approx. 70,000/-)
Dr. V. K. Dogra	Proof Consultancy for Roofing Structure of proposed Multipurpose Hall on 2 nd floor of Guest house Building.	SMVDU	2018	pro-bono (Cost saved approx. 50,000/-)
	Construction of additional storage space at Sports Stadium	SMVDU	2017	pro-bono (Cost saved approx. 7,000/-)

C. Faculty Research Consultancy Expertise/ Specialization

S. No.	Faculty	Area of Expertise	Research/ Consultancy Capabilities
1	Dr. Rajeev Garg	Architectural Design	Conceptualization of Built Environment, Carrying Out Architectural Design, Presentation of Design, Delivery of execution drawings (GFC), Preparation of Contract & Tender documents, Site appraisals and preparation of DPR (Detailed Project Reports), Performance Evaluation of buildings, Green / Energy Audit.
2	Dr. Rashmi Kumari	Architectural Design & Planning	
3	Dr. V. K. Dogra	Structural Design	
4	Mr. Abhimanyu Sharma	Architectural Design	
5	Mr. Abhiney Gupta	Architectural Design	
6	Mr. Aditya K Singh	Landscape Design	
7	Mr. Anoop Sharma	Architectural Design	
8	Mr. Navin Gupta	Landscape Design	
9	Mr. Satyanshu Kumar	Disaster Mitigation	
10	Ms. Sourogee Dutta	Urban Design & Planning	
11	Mr. Vinod Kumar	City Planning	

D. List of Equipment available in School for Research & Consultancy

S.No.	Name of Equipment	Details
1	Compression Testing Machine	1000 Kg Capacity
2	Compaction Testing Machine	Standard Equipment
3	Kelly bell Penetration Apparatus	Standard Equipment
4	Slump Cone Apparatus for Workability of Concrete	Standard Equipment
5	Vicate Needle Apparatus	Standard Equipment
6	Vibrating Machine	Standard Equipment
7	Concrete Mixture	Standard Equipment
8	LeChatlier Apparatus for Soundness	Standard Equipment
9	Electric Oven for Water Absorption Test	200°C capacity

E. List of Software available for in School for Research & Consultancy

S.No.	Name of Software	Details
1	AutoCAD 2D & 3D	Educational Version
2	AutoDesk REVIT	Educational Version
3	Google SketchUP	Educational Version
4	STAD Pro	Educational version
5	Mx Road	Educational Version

F. Details of Testing facilities available in the School

S.No.	Name of facility
1	Compression Test of Bricks
2	Compression Test of Concrete
3	Consistency of Concrete
4	Workability of Concrete
5	Initial and Final Setting Time of Cement & Concrete
6	Water Absorption Test of Brick

G. MOUs

Organization with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
Department of Wildlife Protection J & K	Department of Wildlife Protection J & K	2018	03 years	Architectural & Landscape Design	04

K. Research

FY	Number of International Journal papers	Number of National Journal papers	Number of FDP Organized	Number of other events (Conference/Workshop/Seminar etc.)
2018-17	31	4	1	1
2017-16	8	0	1	1
2016-15	18	5	0	1
2015-14	0	0	0	0
2014-13	0	0	0	0

Name of the School: Energy Management

Year of establishment: 2005

Contact: 01991-285535 Extn:2362

Brief Profile of School:

The School of Energy Management previously School of Infrastructure Technology & Resource Management was established in the year of 2005-2006. The objective of the School is to offer academic program and conduct research in the area of Energy, Renewable Energy and Environment related issue. Presently, the School is running a full time M. Tech. program in Renewable Energy and Energy Systems and Full/Part time Ph.D. Program in various areas. School is well focused in the research work on Solar Energy (Thermal and Photovoltaics), Energy Storage, Exergy analysis of Refrigeration Systems, Exergy & Exergoeconomic analysis of Renewable Energy Systems, Phase Change Materials and Its Applications, Building simulation, chemical exergy, waste water treatment through renewable energy sources.

A. List of research projects sponsored by the government/ non- government agencies:

Name of the project/ endowments, chairs	Name of the principal investigator / co investigator	Name of the funding agency	Type (government /non-government)	Department of principal investigator / co investigator	Year of award	Funds provided (INR in lakhs)	Duration of the project
Simulation and Performance Evaluation of Vapor-Compression-Absorption (VCA) Hybrid Refrigeration System for Cooling and Heating Applications	Sanjeev Anand	CSIR	Govt.	Energy Management	2011	6.13	2 Years
Development of Solar Thermal Photovoltaic Hybrid System with PCM's storage unit for	Vineet V. Tyagi	UGC	Govt.	Energy Management		6.00	2 Years

heating and cooling application in Buildings							
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B. Faculty Consultancy Expertise

S.No.	Faculty	Area of expertise	Consultancy Capabilities
1	Dr. Sanjeev Anand	Refrigeration and Air conditioning, Building Energy Efficiency, Solar Thermal Systems and Conditioning Monitoring	Good
2	Dr. Vineet Tyagi	Thermal Energy Storage systems and applications, Phase Change materials, Solar PV, PVT systems	Good

C. List of equipments available in School for Research & Consultancy

S.No.	Name of Equipment	Details	Project No.
1	IV-400	Required for the testing of solar panels	University Funds
2	Solar Thermal Kit	Testing of solar thermal collectors	University Funds

D. List of Software available for in School for Research & Consultancy

S.No.	Name of Software	Details	Project No.
1	Engineering Equation Solver	Simulation Software	University Funds
2	Trnsys	Transient Simulation	University Funds

E. Details of testing facilities available in the School

S.No.	Name of facility	Details	Project No.
1	IV-400	Required for the testing of solar panels	University Funds

F. MOUs

Organization with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
C- presently National Institute of Wind Energy	SMVD University	2014	5 years	Solar Radiation Resource Assessment on continuous basis	All the student and teachers of School of Energy Management
TaylorMade Solar Solutions Pvt. Limited	SMVD University	2016	5 years	NIL	

K. Linkage with industry

Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration	Nature of linkage	Name of the participant
Student Training	BOSCH	2018	4 Weeks	Industry/ Field Training	Rudraksh Gupta, Sharan Gupta and Rahul Khajuria
Student Training	NIWE	2018	4 Weeks	Industry/ Field Training	Umar, Vibushit, Nipun, Aaquib and Moazum

L. Research

FY	Number of International Journal papers	Number of national Journal papers	Number of other events (Conference/Workshop/ Seminar etc.)
2017-18	10	01	01
2016-17	09	NIL	01
2015-16	09	NIL	Nil
2014-15	09	NIL	NIL
2013-14	08	NIL	Nil

M. Other significant achievement of the school

1. School is the recipient of prestigious National Renewable Energy fellowships (MNRE) for M.Tech. and Ph.D. students.
2. Publication of research papers in the Journals of High Repute and High Impact Factor

Name of the School: Mechanical engineering

Year of establishment: 2006

Contact: Prof. R. K. Mishra (Head, ME)

Brief Profile of School:

The school of Mechanical Engineering was established in 2006 and offers B.Tech. (Mechanical Engg.), M.Tech.(Manufacturing & Automation) and Ph.D. program in emerging fields of Mechanical Engineering.

The B.Tech. admission process is conducted as per the guidelines of CSAB (Central Seat Allocation Board) and SMVDU Entrance examination. M.Tech. and Ph.D. admission process is conducted through proper advertisement in national/local newspapers. The students are admitted on the basis of GATE score and also through written test for non-GATE candidates

Academic activities are planned in advance to follow strict academic calendar. Industrial visits are organized regularly to give a practical experience besides regular classroom teaching. Tutorials, quizzes, presentations, video lectures, etc. are inclusive part of the curriculum.

The school has well qualified 14 faculty members having academic and industrial experience with expertise in different fields of Mechanical engineering like Design, Production, Thermal, CAD/CAM, Robotics, Industrial engineering, Building Simulation, Energy Management. School of Mechanical Engineering is equipped with research equipments such as Electro Discharge Machine, 3D Printing, CNC Machine, VMC Machine, Tribometer, Computer Integrated Metallurgical Microscope, Mini Thermal Plant, Computer Integrated Multi Cylinder Diesel Engine Test rig etc.

A. Faculty Research Consultancy Expertise/ Specialization:

S.No.	Faculty	Area of expertise	Research/ Consultancy Capabilities
1.	Prof. I. K. Pandita	Design	Design
2	Prof. E. Moorthy	Thermal	Thermal
3	Dr. R. K. Mishra	Design and composites	Design and composites
4	Dr. B. Singh	Production	Production
5	Dr. A. Anand	Design & sustainability	Design & sustainability
6	Dr. Yatheshth Anand	Thermal & CAD/CAM	Thermal & CAD/CAM
7.	Mr. Sanjay Mohan Sharma	Industrial & Design	Industrial & Design
8	Mr. Sanjay Sharma	Thermal	Thermal
9	Mr. Varun Dutta	Design	Design
10	Mr. Mir Irfan Ul Haq	Design & material	Design & material
11	Mr. Kapil Chopra	Thermal	Thermal

12	Mr. Amit Kumar Sinha	Industrial	Industrial
13	Mr. Rajiv Kumar	Production & industrial	Production & industrial
14	Mr. Ankush Raina	Mechanical system design	Mechanical system design

B. List of equipments available in School for Research & Consultancy

S.No.	Name of Equipment	Details
1	High temperature Tribometer	Ducom mode 400 PHM
2	CNC Machine(Turning)	Batliboi
3	VMC machine	Batliboi
4	EDM Machine	
5	3D printer	Athrava (mega FDM)
6	microhardness tester	
7	optical microscope	

C. List of Software available for in School for Research & Consultancy

S.No.	Name of Software	Details	Project No.
1	ANSYS	FEM software	B.tech & M. tech
2	CATIA	CAD software	B.tech & M. tech
3	3D Experience	Dassault	B.tech & M.tech

D. Details of testing facilities available in the School

S.No.	Name of facility
1	Tribo testing
2	Micro hardness

E. MOUs

Organization with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
IIT, Jammu	IIT, Jammu	2018	5 years		

F. List of Research projects submitted to funding agency

1. ISRO-1 NO Dr. R. K. Mishra
2. DST-MES 1NO Dr. M. ESwaramoorthy
3. DEDO(A.A) 1NO (Co-PI A.R)

4. DST (A.A)

G. Research

FY	Number of International Journal papers	Number of national Journal papers	Number of FDP organized	Number of other events (Conference/Workshop/Seminar etc.)
2018-17	20	-	1	4
2017-16	18	-	-	3
2016-15	15	-	-	-
2015-14	12	-	-	-
2014-13	10	-	1	-

H. Patents

Sr .N o.	Year	Reference number	Title	Inventors & co-inventors	Patent Authority	Filing status with Patent Authority	Application Status
1	2018	20181103 8186	Ergonomically designed Multitasking Mop handle	Sanjay Mohan Sharma, Nikhil Kumar	Indian Patent Office	Provisional Filed	Awaited
2	2018	20181103 1311	Check Valve Drip-Set	Vikrant Charak	Indian Patent Office	Provisional Filed	Awaited
3	2018	Ref no. Smvdu/1P Msc/016	Fabrication and performance analysis of LPG or compressed air based refrigeration system	Anand Bharti R.K.Mishra	Indian Patent Office	Submitted	Awaited
4	2018	Reference no: SMVDU/IP MSC/027	Synthesis and characterization of bone based nanoparticles	Pawandeep Singh R.K. Mishra Balbir Singh	Indian Patent Office	Submitted	Awaited

Name of the School: School of Business

Year of establishment: 2004

Contact: 01991 285690/2400 & 9419999202

Brief Profile of School:

As part of the University, Faculty of Management (FoM) has established itself as one of India's leading centres of excellence in management education and research. The School of Business as one of the constituents of FoM is offering NBA Accredited Master of Business Administration (MBA) and Ph.D. Programme since 2004.

School of Business, Shri Mata Vaishno Devi University is the first and only institution in the State of J&K that offers NBA accredited MBA programme. The accreditation shall further help the students in their career as it is one of the certification of quality procedures and practices followed by the institution. It is a value addition to the degree at national and international level. It would also help the institution in attracting the best of the talent and support at national and international level.

The School of Business has a well-equipped computer laboratory containing the latest hardware. The laboratory is used extensively by students for research work and for learning specialized packages like SPSS, Prowess & EIS which are used for statistical and trend analysis. High speed Internet connectivity is available to students round-the-clock.

A. List of research project sponsored by government/non-government agencies:

Name of the project/endorsements chairs	Name of the principle investigator /co-investigator	Name of the funding agency	Type (government /non-government)	Department of principal investigator or co-investigator	Year of Award	Fund provided (INR in lakhs)	Duration of the project
Adoption of Banking Technology in Jammu in the state of J&K State: An Empirical Study	Principle Investigator - Dr. D. Mukhopadhyay Co-Investigator Dr. Pabitra Kumar Jena	UGC	Government	School of Business	2013	5.87	April 2013-March 2016
Process of improvement of Apple Fruits production in Kashmir	Principle Investigator - Dr. D. Mukhopadhyay	ICSSR	Government	School of Business	2013	5	Oct 2013-June 2015

Region of J&K: An Empirical Study	Co-Investigator Dr. Pabitra Kumar Jena						
“An Evaluation of Advertisement Effectiveness in India”	Principle Investigator - Dr. Supran Kumar Sharma Co-Investigator Dr. Jyoti-Sharma	AICTE	Government	School of Business	2012	5.75	April, 2012 to March, 2016
“Empirical Study of Psychology & Mindset of Electricity Consumers in the State of J&K and the Social Impact of Power Losses in J&K: Performance, Challenges & Opportunities ”	Principal Investigator s- Dr. Supran Kumar Sharma Dr. Sunil Giri Dr. Sumeet Gupta	State Electricity Regulatory Commission J&K State, Jammu	Government	School of Business & School of Electronics and Communications	2012	4.40	May, 2012 to March, 2015
Technological Changes in Manufacturing Organizations: A Study of North-West States of India”	Principle Investigator - Dr. Jyoti-Sharma Sharma Co-Investigator - Dr. Supran Kumar	ICSSR, New Delhi	Government	School of Business	2011	4.46	March, 2011 to June, 2013.
“Dimensions of Industrial Sickness in SMEs- A Study of Jammu & Kashmir State”	Principal Investigator s- Dr. Supran Kumar Sharma	UGC,	Government	School of Business	2011	1.20	February, 2011 to November , 2012.
“Dynamics of	Principle	AICTE,	Government	School of	2008	4.50	April,

Stress at Workplaces: an Empirical Study of J&K State”	Investigator - Dr. Jyoti-Sharma Co-Investigator - Dr. Supran Kumar			Business			2008 to March, 2010
“Performance and Prospects of Small Scale Industries in the State of Jammu and Kashmir”	Principal Investigator s- Dr. Supran Kumar Sharma	<u>ICSSR</u>	Government	School of Business	2007	Rs.1.74	December , 2007 to November , 2008.
Training Need Assessment for the Employees of SMVD Shrine Board, Katra, J&K	Dr. Saurabh Principle Investigator and Dr. Jyoti Sharma Co-Principle Investigator	SMVD Shrine Board	Government	School of Business	2016	2.80	March, 2016 to September, 2016.
A Comparative study of firm level competitiveness of food processing units of Himachal Pradesh and Jammu and Kashmir	Dr. Saurabh	ICSSR	Govt.	SoB	01/05 /2014	10	3 years
Economic Value Added as a measure for competitive advantage in Indian Companies	Dr. Saurabh	UGC	Govt.	SoB	01/07 /2012	4.74	3 years
Engaging Employees: An Insight from	Dr. Arti Maini	UGC	Govt.	SoB	2015	9.18	3 years

Small and Medium Scale Enterprises of Jammu Region, Jammu and Kashmir State							
Dynamics of Stress at Workplaces: an Empirical Study of J&K State	Co-Principle Investigator - Dr. Arti Maini	AICTE	Government	School of Business	2008	4.50	April, 2008 to March, 2010
Enterprising Jammu	Principle Investigator Dr. Sushil Kumar Mehta Co-Investigator Dr. H. G. Mishra	AICTE	Government	School of Business	2008	7.40	3 years
Organised Retailing in Jammu	Principle Investigator Dr. H. G. Mishra Co-Investigator Dr. Sushil Kumar Mehta	UGC	Government	School of Business	2011	4.78	Aug 2011 to Dec 2013
Impact of FDI on retail sector in Jammu	Principle Investigator Dr. H. G. Mishra	AICTE	Government	School of Business	2013	5	May 2013 to Dec 2015

B. List of major Consultancies taken by School

Name of the consultant	Name of the consultancy project	Consulting/Sponsoring agency with contact details	Year	Revenue generated (INR in LAKHS)
Dr. Saurabh & Dr. Jyoti	Training Need Assessment of	SMVDSB, Katra, J&K	2016-17	2.85

Sharma	SMBDSB Employees			
Dr. Sanjay Kumar Mishra	Preparation of Detailed Project Report for the Business Restructuring of M/s Global Milk and Food Products, Jammu (J&K)	M/s Global Milk and Food Products, Jammu	2015	0.56

C. Faculty Research Consultancy Expertise/ Specialization

S.No.	Faculty	Area of expertise	Research / Consultancy Capabilities
1	Dr. D. Mukhopadhyay	Taxation, Corporate Laws, Finance & Cost Management, & Accounting	Advisor to different level of management
2	Dr. Supran Kumar Sharma	Project Management, Entrepreneurship Management, Decision Models & Optimization	Business Plan Formulation, Start-ups, Market Science & Analytics
3	Dr. Jyoti Sharma	Industrial Psychology, Stress Management, Performance Management, Negotiation & Dispute Handling at Workplace	Industrial Psychology, Conflict Management, HR Analytics, Wellbeing Measurement, Change Management, Organisation Development, Performance Management, Negotiation & Dispute Handling at Workplace
4	Dr. AshutoshVashistha	Finance & General Management	Financial Management, Power Sector, and Social Sector issues
5	Dr. Sushil Kumar Mehta	Security Analysis & Portfolio Management, Financial Statement Analysis	Fundamental Analysis, Technical Analysis
6	Dr. Saurabh	Strategy, Marketing, Social Entrepreneurship	Training and Development, Organizational Development, Process Development
7	Dr. H. G. Mishra	Digital & Social Media Marketing, Retail	Retail & Digital Marketing

8.	Dr. Sanjay Mishra	Finance, Supply Chain & Managing Family Business	Finance, Supply Chain & Managing Family Business
9.	Dr. Arti Maini	Human Resource management, Organizational Psychology	Understanding Employee Psychology, Enhancing Managerial efficiency
10	Dr. Rashi Taggar	Supply Chain Management and Marketing Management	Understanding Consumer Psychology, Enhancing Operational Efficiencies, Soft Skills Development
11	Dr .Syeda Shazia Bukhari	Hr, Marketing, Strategic Management	Performance and Talent Management, Industrial Psychology, Organizational Development, Training and Development
12	Dr. Rooplal Sharma	Economics / Banking	Economics & Banking
13	Dr. DeepaakKumaar Jain	Marketing, International Marketing	Rural Marketing, Services Marketing, Industrial Goods Marketing etc.

D. List of equipment's available in School for Research and Consultancy

S.No.	Name of the Equipment
1.	Licence Software SPSS, E-Views, AMOS, Data Bank-- PROWESS
2.	Well-equipped computer 02 Labs,
3.	Enriched School Level Library

E. MOUs

Organization with which MoU is signed	Year of signing MoU
HVS University, Grurugram, Haryana	2017
St.J.P. University, Columbia	2018
CRSU, University, Jind Haryana	2018

F. List of Research projects submitted to funding agency

1. Project Proposal Title: **Intensity and Effectiveness of Corporate Social**

Responsibility Practices in India: An Empirical Analysis submitted to AICTE, New Delhi

G. Centre at the school

Entrepreneurship Development Cell:

The Entrepreneurship Development Cell, SMVDU has been established in 2010. The EDC-SMVDU provides effective linkages with various Schools (departments) of the campus to

bring about entrepreneurial culture for optimal utilization of the expertise, resources and know-how available. It also networks with other agencies involved in entrepreneurship development and has conducted short term courses, MDPs, FDPs, ESDPs, Business Plan Competitions, Entrepreneurship Awareness Camps etc. in association with agencies like DST-NIMAT Project, GoI, AICTE, Micro, Small and Medium Enterprise Development Institute, GoI, National Skills Development Council etc. for students, faculty members, corporate people, etc. Moreover, with the purpose to inculcate entrepreneurial skills an open elective course is also offered to B.Tech students and compulsory course in MBA Programme

H. Research

FY	Number of International Journal papers	Number of national Journal papers	Number of FDP organized	Number of other events (Conference/Workshops/Seminar etc)
2017-18	12	5	1	13
2016-17	18	6	9	11
2015-16	16	7	1	17
2014-15	17	10	3	14
2013-14	24	14	1	7

I. Other significant achievement of the school

- MBA Program of School of Business is NBA Accredited
- Member of Association to Advance Collegiate Schools of Business (AACSB)
- Association of Management Development Institutions in South Asia (AMDISA)

Name of the School: School of Economics
Year of establishment: 2013
Contact hod.doe@smvdu.ac.in

Brief Profile of School:

School of Economics at Shri Mata Vaishno Devi University, Katra (J&K) is a newly established School under Faculty of Management. The mission of the School is to be an internationally leading Centre of Excellence in the Economics, raise its research and teaching programmes to the highest standards, provide consultancy to industries and government. The vision is to take Economics beyond classroom, inculcate problems solving skills, address the emerging global challenges and disseminate knowledge in economics through inter-disciplinary study and research. As one of the constituents of the University, School of Economics has established itself as one of India's leading centers of excellence in Economics teaching and Research. The School of Economics is offering Five Year Integrated M. Sc.(Economics) and Ph.D. programme in Economics. The School has been organizing seminars, conference, workshops, special lectures and other academic programmes on issues of national and international importance from time to time.

A. List of research projects sponsored by the government/ non- government agencies:

Name of the project/ endowment s, chairs	Name of the principal investigator/ co investigator	Name of the funding agency	Type (governm ent/non- governme nt)	Departmen t of principal investigator / co investigator	Year of award	Funds provided (INR in lakhs)	Duration of the project
Adoption of Banking Technologie s in Jammu region of India: An Empirical Study	Prof.(Dr.) D. Mukhopadhy ay/ Dr. Pabitra Kumar Jena	Universit y Grants Commiss ion	Governme nt	Business/ Economics	2016	Rs. 5, 87, 600	2 Years
Process Improveme nt of Apple Fruits Production	Prof.(Dr.) D. Mukhopadhy ay/ Dr. Pabitra Kumar Jena	Indian Council of Social Science Research	Governme nt	Business/ Economics	2015	Rs. 5,00, 000	18 months

in Kashmir Region: An Empirical Study							
Efficiency Analysis of Hill Agriculture	Dr. Kakali Maumdar	Indian Council of Social Science Research	Government	Economics	Ongoing	Rs. 7,00,000	Two Years

B. List of major Consultancies taken by School

Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details	Year	Revenue generated
Dr. Pabitra Kumar Jena	Governance of Power Sector: A Study of Policy and Performance of Assam Power Sector	Assam Central University	2016	Rs. 30, 000

C. Faculty Consultancy Expertise

S.No	Faculty	Area of expertise	Consultancy Capabilities
1.	Prof. B. Kamaiah	Big Data Analysis & Financial Economics, Financial Engineering & Monetary Economics	Big data analysis & Financial Economics
2.	Dr. Kakali Majumdar	Applied Econometrics, Agricultural Economics & Statistics	Data Analysis, Productivity and Efficiency Analysis & Agricultural Economics
3.	Dr. Meenakshi Gupta	Agricultural Economics & Statistics	Data Analysis & Agricultural Economics
4.	Dr. Pabitra Kumar Jena	Applied Econometrics & Time Series Analysis	Data Analysis, Productivity and Efficiency Analysis & Macro Economic Modeling
5.	Dr. Kirti Ranjan P.	Agricultural Economics & Applied Econometrics	Data Analysis & Agricultural Economics
6.	Dr. Arif Billah Dar	International Finance, Financial Economics & Macro Economics	International Finance & Macro Economic Modeling
7.	Dr. D P Priyadarshi Joshi	Classical Political Economy & Productivity Analysis	Productivity Analysis
8.	Dr. Gopinathan R	Financial Economics & Data Analytics	Predictive Financial Modeling

D. List of Software available for in School for Research & Consultancy

S.No	Name of Software	Details	Project No.
1.	R	Data Analysis Software	NA
2.	IBM Statistical Package for the Social Sciences	Data Analysis Software	NA
3.	E-Views	Data Analysis Software	NA

E. List of Research projects submitted to funding agency

1. "Development of Eco-Tourism Opportunities in Jammu & Kashmir Employment Generation" submitted to, Department of Tourism, Government of Jammu & Kashmir.
2. "Development and Impact of Tourism Industry on Jammu & Kashmir Economy of India: An Experience from Switzerland" submitted to Indian Council of Social Science Research.

F. Research

FY	Number of International Journal papers	Number of national Journal papers	Number of FDP organized	Number of other events (Conference/Workshop/Seminar etc.)
2018-17	10	7	0	02
2017-16	5	8	2	03
2016-15	3	20	0	05
2015-14	7	9	0	04
2014-13	5	7	0	03

G. Other significant achievement of the school

1. Organized 54th The Indian Econometrics Society (TIES) Annual Conference at School of Economics, Shri Mata Vaishno Devi University, Katra, Jammu & Kashmir during 7-9th, March, 2018.

Name of the School:	School of Languages and Literature
Year of establishment:	December 2005
Contact:	Dr. Amitabh Vikram Dwivedi, Assistant Professor & I/c. Head of School

Brief Profile of School:

Language is the most powerful means of communication, a potent instrument of artistic expression, literary creativity and a significant medium for the expression and conservation of culture. Language, therefore, is all pervasive, indispensable aspect of mankind. Ostensibly, there exists an intrinsic form of relationship between language and literature and this symbiotic co-relation is inter-complementary. Literature represents language and people: culture and tradition and introduces us to new worlds of experience as we evolve our own literary journey with books. In essence, literature is a reflection of life.

Based on this premise, the School of Languages and Literature was set up in December 2005 for teaching and research in major languages and literatures of the world particularly the major modern European & Sino-Tibetan languages like English, Chinese, French, German, Russian, Spanish and British, American & Commonwealth literatures.

English as a language is a huge reservoir into which words, metaphors and expressions from all over the world keep on flowing. The process has been going on since Anglo-Saxon Period (650 A.D.) and right till now. Therefore, as an obligatory duty School of Languages and Literature has been focusing on English Language Teaching (ELT) since its inception. However, foreign languages such as Chinese, French, German Russian & Spanish have cumulatively formed and continue to form a kind of language bastion. The School of Languages plans to add the teaching of these foreign languages in a phased manner. The process began with an intensive certificate course in French which the school has been offering twice in a year i.e. January & June since January 2007.

Vision: Envisioning as a centre of professional excellence, academically sound environment and bringing structural transformation in the society through teaching and research in languages and literature.

Mission: Pursuit of Language and Literary Education, Research and Consultancy in conformity with established global standards and practices.

Program Educational Objectives

(M. A. Two Year Full Time Degree Program)

PEO 1:

MA Graduates will be well prepared for pursuing successful careers in Teaching and Higher

education in one or more areas of languages and literary studies and executing high quality teaching and research, impart training in language learning, create projects and perform copyediting and content writing.

PEO 2:

The MA graduates will be prepared to become college and University teachers, educationalists, translators, copy editors, language trainers and researchers in organizations and will contribute positively, ethically and respectfully with an informed international perspective.

PEO 3:

The MA graduates will be prepared to be compatible to specialize by pursuing higher education in languages and literature, allied fields and/or interdisciplinary studies of their interest to widen their horizon for valuable input to the profession and society at large.

Program Outcomes (POs)

(M. A. Program offered by SoL&L)

The curriculum and syllabi of M.A. Two Year Full Time Degree Program is designed to achieve identified Graduate Attributes (GAs) with the following Pos.

After successful completion of the degree program, a student will be able to:

1. Apply the advance knowledge of Literature and Linguistics specialization and to use it in both in the past as well as present context.
2. Identify, formulate research questions, and analyse research problems to carry out independent research and to arrive at substantiated conclusions using the theoretical principles of literature and linguistics.
3. Provide suggestions/solutions for literary, linguistics and societal issues and recommend policy makers for matters related to literature and language, considering moral sensitivity, and the cultural, societal, and environmental considerations.
4. Use research-based knowledge including language and literary theories, analysis and interpretation of language and literary texts, and synthesis of knowledge to provide valid conclusions.
5. Create, select, and apply appropriate language teaching methods and techniques to real life classroom situation, and employ resources and literary theories to real life situation with an understanding of the difference between fiction and reality.
6. Apply reasoning derived from the contextual knowledge of language and literary texts to assess literature, language and cultural issues and the consequent responsibilities relevant to the professional literary practices.
7. Understand the impact of the literature and linguistics in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable and ecological development.
8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the social practice.
9. Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.

10. Communicate effectively with the multidisciplinary community and with society at large. Be able to comprehend and write effective dissertation and academic papers. Make effective presentations, and give and receive clear instructions.
11. Demonstrate knowledge and understanding of literature and linguistics and apply these to one's own work. Manage projects in multidisciplinary environments.
12. Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of sociological change.

A. List of research projects sponsored by the government/ non- government agencies:

Name of the project/ endowments , chairs	Name of the principal investigator/ co investigator	Name of the funding agency	Type (government/ non-government)	Department of principal investigator/ co investigator	Year of award	Duration of the project
A Comprehensive Study of Culture, Philosophy, Literature and Language	Dr. Amitabh Vikram Dwivedi	ICSSR	Government	SOLL	2018	18 months

B. Faculty Consultancy Expertise

Sr.	Faculty	Area of expertise	Consultancy Capabilities
1	Dr. Amitabh Vikram Dwivedi	Encyclopedia of World Poverty	CA: Sage Publications Inc.
2	Dr. Amitabh Vikram Dwivedi	Historic Sites and Landmarks that Shaped America: From Acoma Pueblo to Ground Zero	Santa Barbara, CA: ABCCLIO/Greenwood-Praeger
3	Dr. Amitabh Vikram Dwivedi	The Encyclopedia of Japanese Horror Films	Rowman & Littlefield
4	Dr. Amitabh Vikram Dwivedi	The Sage Encyclopedia of Online Education	Sage Publications Inc. CA
5	Dr. Amitabh Vikram Dwivedi	The SAGE Encyclopedia of War: Social Science Perspectives	Sage Publications Inc. CA
6	Dr. Amitabh Vikram Dwivedi	War and Religion: An Encyclopedia of Faith and Conflict	ABC-CLIO/Greenwood-Praeger
7	Dr. Amitabh Vikram Dwivedi	He Sea in World History: Exploration, Travel, and Trade, Santa Barbara	CA:ABCCLIO/Greenwood Praeger
8	Dr. Amitabh Vikram Dwivedi	The SAGE International Encyclopedia of Travel and Tourism	Sage Publications Inc. CA

9	Dr. Amitabh Vikram Dwivedi	Encyclopedia of Psychology and Religion	Springer-Verlag GmbH Germany
10	Dr. Amitabh Vikram Dwivedi	EBSCO Research Starters	Academic Topics Overview, EBSCO
11	Dr. Amitabh Vikram Dwivedi	EBSCO Literature	Academic Topics Overview, EBSCO
12	Dr. Amitabh Vikram Dwivedi	Encyclopedia of Indian Religions. Hinduism and Tribal Religions	Springer-Verlag GmbH Germany
13	Dr. Amitabh Vikram Dwivedi	Islam : A Worldwide Encyclopedia	Santa Barbara, CA: ABCCLIO/Greenwood-Praeger
14	Dr. Amitabh Vikram Dwivedi	The SAGE Encyclopedia of Theory	Sage Publications Inc. CA
15	Dr. Amitabh Vikram Dwivedi	The SAGE International Encyclopedia of Mass Media and Society	Sage Publications Inc. CA
16	Dr. Amitabh Vikram Dwivedi	Encyclopedia of Religion and Contemporary Politics	ABCCLIO/Greenwood Praeger

C. List of Research projects submitted to funding agency

1. Research Project Proposal title: Language Conservation and Documentation: A Linguistic Survey of Sarazi, Submitted to: Indian Council of Social Science & Research (ICSSR), Amitabh VikramDwivedi, Project Director and Dr. Anurag Kumar, a Co-Director, Budget Estimate: **Rs. 15,32,050/-**

D. Research

FY	Number of International Journal papers	Number of national Journal papers	Number of FDP organized	Number of other events (Conference/Workshop/ Seminar etc.)
2018-17	4	5	1 (1 more FDP on 1 st Nov 2018 to 6 th Nov. 2018)	4 (1 more National Doctoral Student Conclave on 18 th Sept. 2018)
2017-16	5	3	NA	3
2016-15	13	2	NA	1
2015-14	12	7	NA	1
2014-13	6	8	NA	1

E. Other significant achievement of the school (Books Published by Faculty Members of Sol&L)

Dr. Amitabh Vikram Dwivedi

1. Title: A Grammar of Hadoti

Publisher: Lincom Europa Academic Publications

Place: Muenchen

Year: 2012

ISBN: 9783862881703

Series: Languages of the world. Materials; 485

(Indexed in: European libraries, including University of Oxford, MIT, German National Library, Leiden University, University of Chicago, alike.)

Review: Parihar, Ravi. (2017) A Grammar of Hadoti. Dialectologia, University of Barcelona, pp. 189-203 (ISSN: 2013-2247)

2. Title: A Grammar of Bhadarwahi

Publisher: Lincom Europa Academic Publications

Place: Muenchen

Year: 2013

ISBN: 9783862884353

Series: Languages of the world. Materials; 495

(Indexed in major European libraries, including University of Oxford, MIT, German National Library, Leiden University, University of Chicago, alike.)

Review: Parihar, Ravi. (2017) A Grammar of Bhadarwahi. Sociolinguistic Studies, Equinox Publishing. pp. 475-482 (ISSN: 1750-8657).

3. Title: Chinaar-kaa-Sukhaa-Pattaa (Dried Leave of Chinar) Publisher: Anjuman Publication

Place: Allahabad

Year: 2015

ISBN: 978-93-83969-56-2

4. Title: Something Lurks It Seems

Publisher: Marfa House

Place: Texas

Year: 2017

ISBN: 978-1-946072-21-4

5. Title: Dogri and its Dialects: A Comparative Study of Kandi & Pahari Dogri

Publisher: Lincom Europa Academic Publications

Place: Muenchen

Year: 2018

ISBN: 9783862888672

Series: Linguistic Edition, 115

(Indexed in: European libraries, including University of Oxford, MIT, German National Library, Leiden University, University of Chicago, alike.)

Dr. Anurag Kumar

1. Title: African American Literature: Politics of Marginal Space in the Fiction of Gloria Naylor

Publisher: Atlantic Publishers and Distributors Pvt. Ltd

Year: 2017

ISBN -10: 8126921463

ISBN – 13: 978-8126921461

Dr. Ranbir Kaur

1. Title: War Poets of English Literature
Publisher: Random Publications, New Delhi
Year: 2015
ISBN: 978-93-5111-583-0
2. Title: Realism in English Literature
Publisher: Random Publications, New Delhi
Year: 2015
ISBN: 978-93-5111-580-9
3. Title: The World Wars and English Literature
Publisher: Random Publications, New Delhi
Year: 2015
ISBN: 978-93-5111-582-3

F. Special/Extension Lectures Organized by the School:

2018-17	7 (5 more lectures organized in the month of July, August& October)
2017-16	3
2016-15	4
2015-14	NA
2014-13	NA

Name of the School: School of Philosophy & Culture (SoPC)

Year of establishment: 2005

Contact: 01991-285524 (08 Lines), 09622885588

Brief Profile of School:

The School of Philosophy & Culture is one of the two constituent Schools of the Faculty of Humanities and Social Sciences. The School aspires to become multidisciplinary in the area of philosophical and cultural studies. Presently, it offers Master's and Ph.D. programme in Philosophy. Broad areas for Ph.D. programme are Indian Philosophy, Philosophy of Mind, Logic, Moral Philosophy and Analytical Philosophy. The School also offers core courses such as Introduction to Logic, Advance Logic and Discourse on Human Virtues as well as various open-elective courses to the B. Tech. students to inculcate analytic and critical attitude in them. The School is encouraged to offer introductory level courses to these students so that they develop an attitude of comprehensive understanding.

A. List of research projects sponsored by the government/ non- government agencies:

Name of the project/ endowment s, chairs	Name of the principal investigator/ co investigator	Name of the funding agency	Type (government/non-government)	Department of principal investigator/ co investigator	Year of award	Funds provided (INR in lakhs)	Duration of the project
UGC Minor Project	Dr. Anil K. Tewari	UGC	Government	SoPC	2017	0.80/-	1.5 year

B. List of equipments available in School for Research & Consultancy

S.No.	Name of Equipment	Details	Project No.
1.	Books	167	PR-38
2.	Computers	04	University Fund
3.	Photocopiers	01	University Fund

C. MOUs

Organization with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
IGNCA, New Delhi		2018	5year		Implementation under process

D. List of Research projects submitted to funding agency

- I. "The Brain-Brahman Dichotomy: Study of the Problem of Consciousness with reference to the Reductionist- Antireductionist Debate". Submitted to ICPR, New Delhi

E. Research

FY	Number of International Journal papers	Number of national Journal papers	Number of FDP organized	Number of other events (Conference/Workshop/Seminar etc.)
2018-17	-	2	01	4
2017-16	-	2	-	4
2016-15	-	1	-	2
2015-14	-	2	-	3
2014-13	-	3	-	1

F. Other significant achievement of the school:**2018**

- i. Celebration of World Sanskrit Day on 27-08-2018
- ii. Celebrates World Environment Day in collaboration with NSS on 05-06-2018
- iii. One-Day National Doctoral Student Conclave jointly organized by School of Languages and Literature and School of Philosophy & Culture was held on 5th March 2018.
- iv. Organized Special lectures by Prof. P. Jetli, Visiting Faculty at Tata Institute of Social Sciences and an adjunct faculty of the School of Philosophy and Culture from 6-12 March 2018.
- v. Celebrate National Youth Day and organized an interactive session on “Exchanging Ideas for Transforming India” to celebrate 155th Birth Anniversary of Swami Vivekananda, the sage and visionary of modern India, on 12th January 2018.

2017

- i. World Philosophy Day celebrated 14-12-2017
- ii. Organized a special lecture on “Research Ethics” by Prof. Göran Collste, Professor Emeritus, Department of Culture and Communication, Linköping University, Sweden on 07-11-2017.
- iii. Celebrated the Constitution Day of India on 26th November 2017.
- iv. Organized a special lecture by Prof. Kisor K. Chakrabarti, Adjunct Faculty, School of Philosophy & Culture (SoPC) “Human Rights, Ethics and Spirituality: A Perspective from India” on 30-10-2017.
- v. Organized extensional lectures for faculty and research scholars, Prof. Alex Watson delivers three talks on different themes on Indian Philosophy. Prof. Watson is a D.Phil. from Oxford University and had been Fellow at Kyushu University Japan and University of Vienna from 9-11 March 2017.

2016

- i. Organized special lectures by Prof. Kisor Kumar Chakrabarti A renowned scholar of Indian Philosophy and retired Professor of Philosophy and Religion from Davis and Elkins College, West Virginia (USA) and Adjunct Professor in SoPC from 25th Nov. – 12th Dec. 2016.

- ii. Organized Special Lecture by Prof. S. P. Pandey, Prof. in Dept. of Philosophy & Religion, Banaras Hindu University on 14th June, 2016.
- iii. First Philosophy Alumni Meet on Thursday 5th May, 2016.

2015

- i. Organized an interactive session on “Facing Real-Life Challenges” by Swami Narasimhananda of Ramakrishna Mission on 6th August, 2015.\
- ii. Organized “North-Western Philosophy Teachers” Meet”, sponsored by Indian Council of Philosophical Research (ICPR), New Delhi from 25th – 27th February, 2015.

2014

- i. Celebrated the World Philosophy Day on 28th Nov, 2014.