



# SHRI MATA VAISHNO DEVI UNIVERSITY

## SEVENTH ANNUAL REPORT 2010-2011

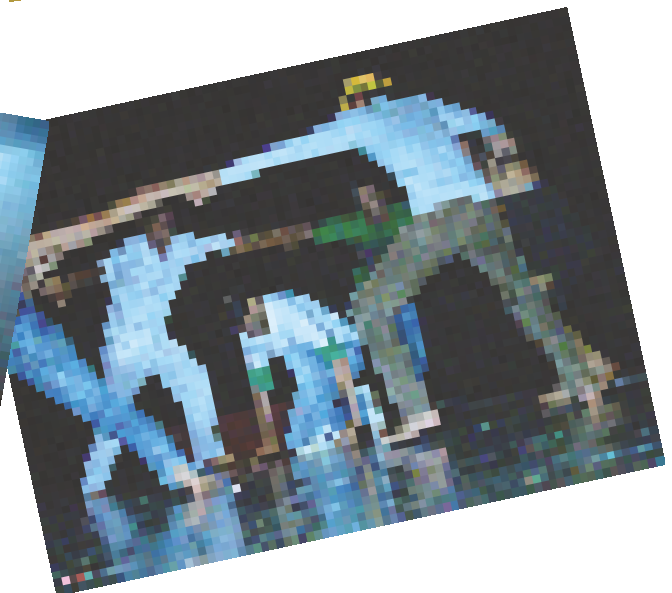
Sub Post Office Katra- 182320, Jammu & Kashmir  
Tel: 01991-285535, 285634, Fax: 01991-285573  
Email: [mediacell@smvdu.ac.in](mailto:mediacell@smvdu.ac.in)  
Website: [www.smvdu.net.in](http://www.smvdu.net.in)  
Public Relations Office:  
15c, Second Extension, Opposite Bahu Plaza,  
Gandhi Nagar, Jammu- 180004  
Telefax: 0191-2470067

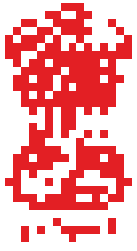
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# SMVDU IN PICTURES





**RAJ BHAVAN  
SRINAGAR-190001**

## **Chancellor's Message**

Within a short span of seven years since its establishment, Shri Mata Vaishno Devi University has gained a high reputation for excellence. It is attracting students from various parts of the country who seek to pursue varied courses of learning.

It is gratifying to note that the University is running a number of sponsored research projects which are beginning to attract beneficial consultancies. Equally satisfying, the bright students passing out of this Institution have been getting placed in well known research, Industrial and business establishments in the country.

I am confident that the continuing endeavours of the University shall ensure its emergence as one of the leading educational institutions in the country.

I wish Prof. R.N.K. Bamezai, Vice Chancellor, faculty members, students and staff of the University high success in their continuing endeavours.

**(N.N. Vohra)**

Chancellor,

Shri Mata Vaishno Devi University

18<sup>th</sup> October, 2011  
Srinagar.



## Chancellor's Message

Universities provide a life-line of educated human resource for a country. This resource if produced with quality and values would influence the material well-being of the nation and the world. Institutions of higher learning, when built with clarity of purpose, can be pitched at achieving excellence in knowledge, learning and skill orientation. A symbiotic relationship between the teacher and the student, if nurtured in an environment of complete dedication, honesty and sensitivity, can bind diverse constituents of an institution. The year 2010-2011 has been yet another eventful year for Shri Mata Vaishno Devi University. The university had the proud privilege to strengthen its infrastructural, administrative and academic system with optimized resource utilization.

Completing seven years of its establishment, our efforts this year had been to empower students and teachers by creating student-faculty interaction platforms and establish modern research facilities. Getting a number of R&D projects has paved the way for future growth of the university. Blazing the trail by an inclusive and inter-disciplinary approach has fostered the freedom to experiment, evolve and grow amongst the students and scholars.

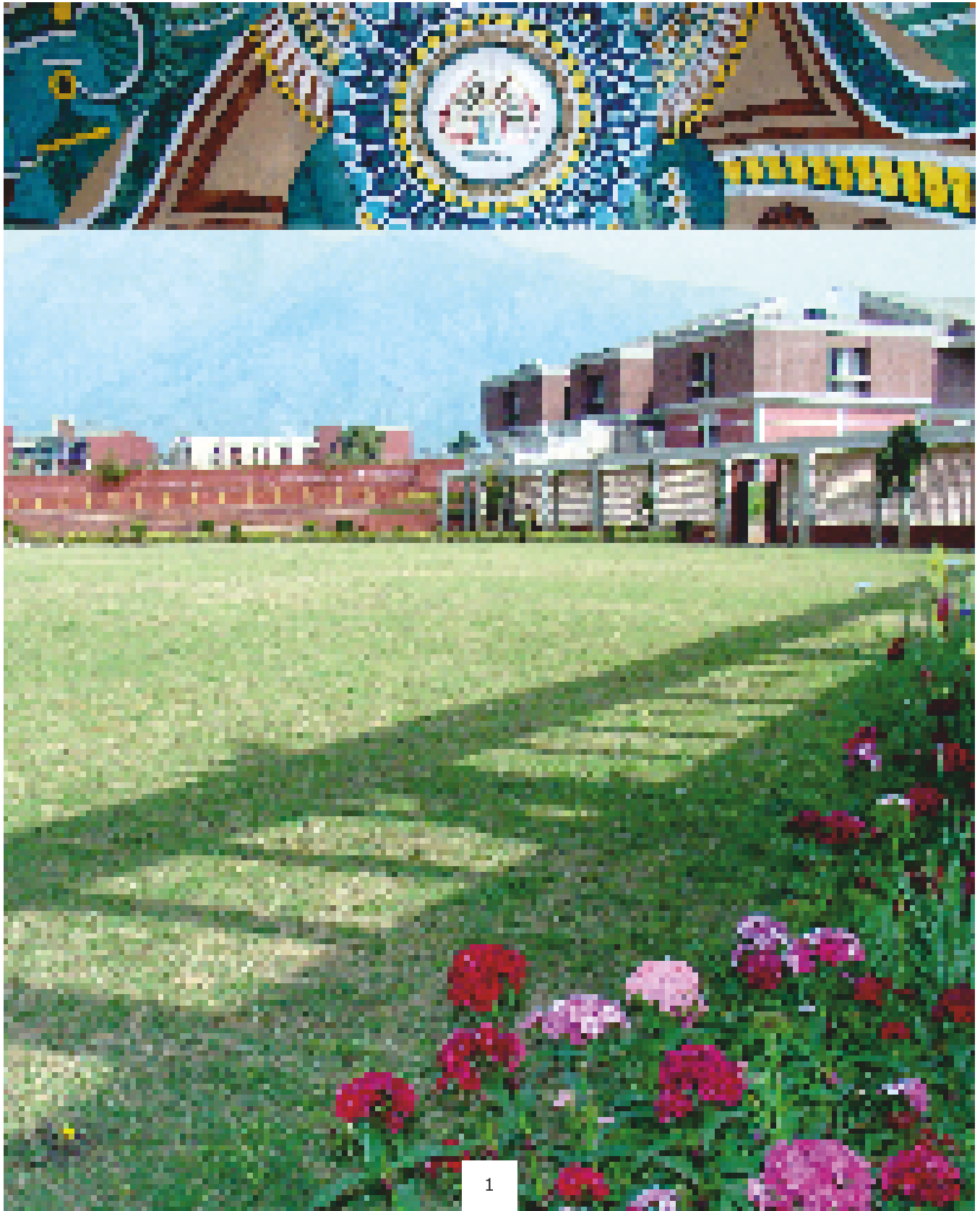
With the pool of diverse and inquiring students, the devoted faculty and non-faculty-staff and the alumni, puts the confidence in this human resource to take SMVDU to different heights of excellence. SMVDU stands for adventure of ideas, truth, tolerance and excellence in all spheres of life. Inculcation of a culture of reasoned discourse in all aspects of the University life, amongst all sections, allows us to strive for civility, respect and trust.

I am privileged to be the Vice Chancellor of the growing university and am grateful for the unwavering support of the Shrine Board, its Chairman and the CEO, Support from UGC under 12B and accreditation by TCS and Capgemini has added to our resolve to do better.

I present the seventh annual report for a positive feed-back and constructive criticism to allow us to continue in our odyssey to achieve excellence in all spheres of academic and administrative life.

**(Prof. R.N.K Bamezai)**  
Vice Chancellor)

# SMVDU IN PICTURES



## Introduction

The Journey of Shri Mata Vaishno Devi University since its inception in 1999 has been a sublime combination of visioning and re-visioning leading to stupendous achievements. The vision of the University encompassed in the motto of the University " God ( Brahma) is Science" envisage a society where man bestowed with all the three god-like powers enshrined in the Hindu Trinity by Science possesses the ability to use them for the progress of mankind and destroys all that plagues mankind.

The infrastructural growth of the university has been supplemented with academic flight since the establishment and inauguration of Shri Mata Vaishno Devi University in an auspicious beginning in the year 2004 when the first lecture of the University was delivered by the former President of India, the 'Missile Man of India', who has also launched his mission for the Youth of India, Dr. A P J Abdul Kalam. Following the spirit of the inauguration, the first convocation of the University was addressed by Dr. Manmohan Singh, the Hon'ble Prime Minister of India, aptly known as a great teacher at heart.

The University has traversed a long way in its march towards excellence in teaching, research and holistic development of students. The seventh annual Report provides clear insights into the life at university over the past one year : the broad range of university's activities and the strength of its performance in relation to its stated roles, values and goals.

## Academic Programmes

Colleges, Schools, Cells & Centres

The University has four Colleges, fourteen Schools, four Cells and three Research Centres. Currently, the University is offering Ph.D in six disciplines, M.Tech in three disciplines, PG in seven disciplines, B.Tech in five disciplines and B.Architecture.

### Admission

The intake of students has shown considerable progress since the establishment of university in 2004 till 2011. The student strength has reached 1402 (approx.) in the year 2011 in various undergraduate, postgraduate and Ph.D courses. The admission to all PhD and PG courses is through written test and Interview and admission to B.Tech courses through Central Counseling process of AIEEE. In the year 2008, the University was allotted a full fledged Counseling Centre by Central Counseling Board (CCB) for admission in B.Tech/ B.Arch to facilitate students of J&K and since then the admissions to all B.Tech courses is done through CCB. (Annexure-I)

## Faculty Positions

During the reporting year, 5 Professors, 2 Associate Professors, 29 Assistant Professors and 54 Lecturers have been working in different Schools of University.

### Seminars/ Symposia/ Workshop/ Short Term Courses Conducted

During 2010-11, 3 International Seminars, 2 National seminar and 7 Symposia/ Workshop/ Short Term Courses were conducted by different Schools and Centres of the University. (Annexure-II)

### **Seminars/ Symposia/ Workshop/ Short Term Courses Attended by Faculty**

During 2010-11, the Faculty members presented papers in 44 seminars/ symposia and workshop held in India and abroad. (Annexure-III)

## **Research Programmes**

### **Doctoral Programmes**

Fifteen Research Scholars were registered for the Ph.D programme during the year. The total numbers of research scholars as on 30.04.2011 were 52.

### **Research Projects**

During the year under report, 29 sponsored research projects were carried out under various stages of execution in the University Schools. (Annexure-IV)

### **Publications**

The Faculty members published 80 research papers in reputed national and international journals during the year. (Annexure- V)

## **Finance**

During the period, the UGC sanctioned Rs. 1103.63 lacs as one time grant to the university in the XI Plan. Out of the approved grant, Rs. 2.5 crore as General Development Grant, 251.85 lacs under the Merged Schemes and Rs. 90 lacs as an Additional Assistance Scheme has been released to the University.

## **General Information**

The Executive Council, Academic Council and the Finance Committee met during the period under report as indicated below:

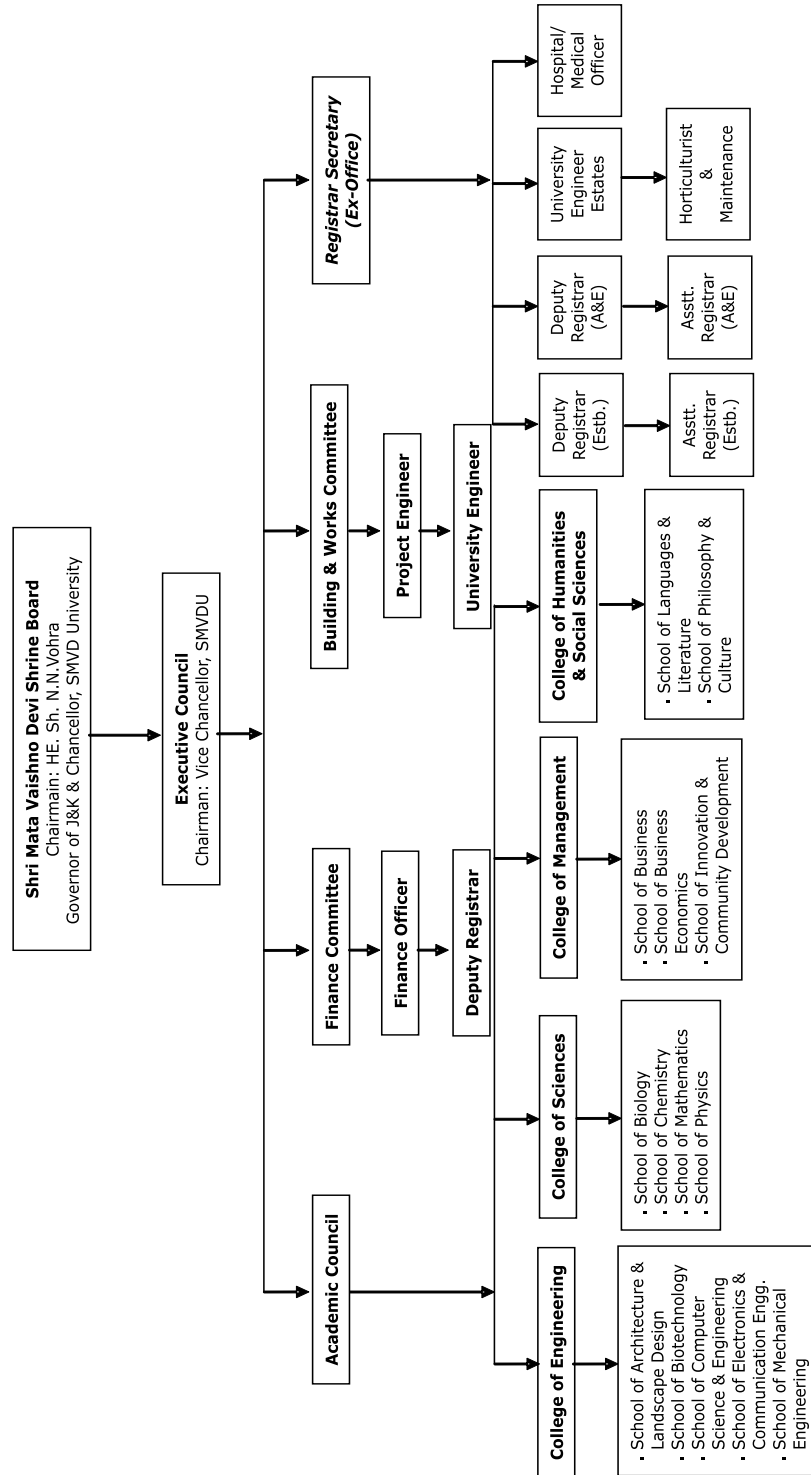
Executive Council : 30.11.2010

Academic Council : 27.10.2010

Finance Committee : 30.07.2011

## Organization Chart

A senior professor is designated as Dean of a College, and the school is headed by a senior professor of the School and designated as Director. The administrative and academic setup of the University is given in the following chart:



## University At A Glance

1	Location	Katra, Distt. Reasi, J&K	38 Kms North of Jammu, the winter capital of J&K
2	Year of Establishment	12 May, 1999	Established through an act of J&K State Legislature known as "Shri Mata Vaishno Devi University Act (Act no XII) 1999.
3	Date of Inauguration	19 August, 2004	H.E. Dr. A.P.J Abdul Kalam, former President of India delivered the First lecture to the First batch of students.
4	Total land area	470 acres	A mesmerizing valley symbolizing omniscience of Goddess with a view of the abode of Goddess Durga from each zone.
5	Zones	5 zones	Administrative Zone Academic Zone Residential Zone for Faculty, Staff, Girls Hostels & University Guest House. Residential Zone for boys Recreation Zone & Sports Complex
6	Infrastructure	Helipad Auditorium Sanskriti Kaksh Seminar Rooms	Three Helipads Matrika Auditorium with 1000 seating capacity. State of the art stage, audio & video projection system. A mini auditorium with 400 seating capacity. Four specially designed Seminar Rooms with 200 seating capacity for special lectures, seminars & other interactive sessions.
7	Cells/Centres	Telecommunication Centre Network Centre Publication & Media Cell Maintenance Cell Gender Sensitization Committee against Sexual Harassment	BSNL ISDN (Integrated Service Digital Network) 512 line telephone exchange and a mobile tower. Siemens Hipath 4300 to Hipath 4000 V2.OE Simplex IP reading communication server with 336 Analog Extensions, 24 Digital Extensions and 24 trunk lines with CLIP facility on each extension. IBM, Sun Solaris servers running latest software like MS – Windows 2003 & Red Hat Linux EE. Reliance link for internet connection 10 mbps. Publication of Prospectus, UG and PG study courses, MBA Brochure, B.Tech. Brochure, Arth Anvesan, Annual Report, Chronicle, Numerous Leaflets, Booklets and Posters. Media Coverage of the events organized in the University. Maintenance and repair of the computer hardware and its related accessories of the whole campus. Gender Sensitization and Orientation Crisis Management and Mediation Formal Enquiry and Redressal
8	Number of Colleges	Four	College of Engineering College of Humanities & Social Sciences College of Management College of Sciences
9	Number of Schools	Fourteen	School of Architecture & Landscape Design School of Bio Technology School of Biology & Chemistry School of Business School of Computer Science Engineering School of Economics School of Electronics & Communication Engineering School of Infrastructure Tech & Resource Mgt. School of Innovation & Community Development School of Languages & Literature School of Mathematics School of Mechanical Engineering School Philosophy & Culture School of Physics
10	Total No. of Faculty Members	One hundred and six	
11	Courses Offered	Fifteen	B.Tech, M.Tech, M.A, M.Sc., Ph.D
12	Research Centres	Three	Centre of Bioinformatics Centre for Embedded Instrumentation & Networked Controls Research and Development Cell in the School of SALD
13	Amenities	Medical Aid Centre J&K Bank Ltd. OBC Bank Post Office	Shopping Complex Café & Eating Points Delhi Public School SMVDU Officer's Club Officer's Club Ladies Wing Children's Library Fountain Park Children's Park



## Milestones Since Inception

S.no.	Date	Event
1.	September 2011	MoU signed with Micro Small Medium Enterprise Development Institute, Jammu
2.	March 2011	The Foundation Stone laid of Residential Block by H.E. Sh. N.N. Vohra, Governor J&K & Chancellor SMVD University
2.	March 2011	Inauguration of Mass Array Genetic Analysis System Laboratory in the field of Bio-Technology by H.E. Sh. N.N. Vohra, Governor J&K & Chancellor SMVD University
3.	August 2010	MoU signed with IIM, Jammu
	August 2010	Setting up Of School Of Biology & Chemistry
	July 2010	Setting up of School Of Innovation & Community Development
4.	March 2010	TCS Accredited the University for Campus recruitment of students
5.	Jan 2010	Prof. R.N.K Bamezai took over as 3 <sup>rd</sup> Vice Chancellor of University
6.	Dec 2009	Sanctioning of grant-in-aid under XI Plan by UGC of 10 crores (approx.) to the University
7.	Dec 2009	Inauguration of Central Library by H.E. Sh. N.N. Vohra, Governor J&K & Chancellor SMVD University
8.	Dec 2009	Inauguration of School of Architecture & Landscape Design by H.E. Sh. N.N. Vohra, Governor J&K & Chancellor SMVD University
9.	Nov 2009	Second Convocation addressed by Sh. N.R. Naraynan Murthy, Chairman Infosys
10.	June 2009	12(B) status accorded to University by University Grants Commission
11.	June 2009	Central Workshop Inaugurated by Jenab Omar Abdullah, Hon'ble Chief Minister, J&K
12.	April 2009	MoU signed with Thapar University, Patila
13.	March 2009	MoU signed with Kurukshetra University
14.	March 2009	Neelgiri Boys Hostel inaugurated by H.E. Sh. N.N. Vohra, Governor J&K
15.	Nov 2008	MoU signed with Prathista Industries Ltd. Hyderabad
16.	Oct 2008	Inauguration of New Academic Block by H.E. Sh. N.N.Vohra, Governor J&K & Chancellor SMVDU
17.	April 2008	First Convocation addressed by H n 'ble Prime Minister of India, Dr. Manamohan Singh
18.	March 2008	Inauguration of "MATRIKA" Auditorium by Lt Gen (Retd.) S.K.Sinha, PVSM, Former Governor of J&K
19.	Jan 2008	Inauguration of Vaishnavi hostel by Lt. Gen (Retd.) S.K.Sinha PVSM, Former Governor of J&K
20.	August 2007	MoU signed with State Forest Research Institute, Jammu & Kashmir for joint Research on Bamboo under the National Bamboo Mission
21.	August 2007	MoU signed with Micro, Small & Medium Enterprise (MSME) Development Institute Jammu to create Business Skill Development Program
22.	July 2007	MoU signed with Ruhr University, Bochum Germany
23.	March 2007	MoU signed with Kun Shan University Taiwan, Taiwan
24.	Dec 2006	MoU signed with Red Hat India Pvt. Ltd. Delhi to provide training to the students on latest version of open source operating system. The MOU also offers a free training to five faculty members for five days
25.	Oct 2006	Inauguration of Shivalik hostel by Gulchan Singh Charak, Former Minister for PWD J&K
26.	August 2006	Inauguration of New Administrative Block, 'Sanchalan Bhawan' by Lt Gen (Retd.) S.K.Sinha PVSM Former Governor of J&K
27.	May 2006	MoU signed with Orel State Technical University, Orel Russia
28.	June 2006	Council of Architecture approval to establish a School of Architecture & Landscape Design
29.	May 2006	A.I.C.T.E. approval for running all engineering courses (CSE ECE ME)
30.	May 2006	Passing out of the First batch students (2004 -2007)
31.	March 2006	Inauguration of College of Sciences by Jenab Ghulam Nabi Azad, Former Chief Minister J&K
32.	March 2006	Inauguration of Kailash Boys Hostel by Jenab Ghulam Nabi Azad, Former Chief Minister J&K
33.	August 2005	Inauguration of College of Philosophy Culture & Languages by Dr. Karan Languages by Dr. Karan Singh Member Raiya Sabha
34.	July 2005	Inauguration ofTrikuta Hostel by Prof. N.K.Bansal, formerVice Chancellor SMVDU
35.	May 2005	Inauguration of College of Management by Former Gover or, Lt Gen (Retd.) S.K.Sinha, PVSM ,Former Governor of J&K.
36.	April 2005	MoU signed with Aachen University of Applied Sciences, Germany for Student and Faculty Exchange and Joint Research
37.	March 2005	MoU signed with Regional Research Laboratory, Jammu
38.	August 2005	MoU signed with TIT Delhi for Student and Faculty Exchange Programme and joint research
39.	2005	Adaptation of Academic Pattern of IIT's
40.	August 2004	Inauguration of College of Engineering by Dr. A.P.J Abdul Kalam , Former President of India
41.	August 2004	Inauguration of the University by Dr. A.P.J Abdul Kalam, Former President of India

## Governing Bodies

### Members of Executive Council of University

1	Sh. N.N.Vohra His Excellency The Governor, J&K & Chancellor, SMVD University	2	Prof. R.N.K. Bamezai Vice-Chancellor, SMVD University
3	Prof. Varun Sahni Vice-Chancellor, University of Jammu	4	Prof. Riyaz Punjabi Vice Chancellor, University of Kashmir
5	Prof. R.S. Misra Dean of Students, SMVD University	6	Prof. M.L. Garg Dean College of Engineering, SMVDU.
7	Prof. Dinabandhu Mukhopadhyay Dean College of Management, SMVD University	8	Prof. V.Verma Director School of Biotechnology, SMVD University
9	Prof. C.L. Razdan Director, School of Architecture & Landscape Design, SMVD University	10	Shri Rajendra. S. Pawar Chairman, NIIT Ltd., Plot No.85, Institutional Area, Sector-32 Gurgaon- 122001, Haryana
11	Prof. Vinayshil Gautam Department of Management Studies, IV Floor, Vishwakarma Bhawan, IIT Delhi, Hauz Khas, New delhi- 110016	12	Sh. R.K.Goyal, IAS Chief Executive Officer, SMVDSB & Principal Secretary to HEG, J&K State
13	Prof. V.S. Raju <b>(Member Invitee)</b> Former Director, IIT Delhi, 83, Hill Ridge Villas, Gachibowli, Hyderabad	14	Ms. Roop Avtar Kour, IFS <b>(Member Invitee)</b> Registrar, SMVD University

PHOTOGRAPH REQUIRED

## Members of Academic Council of Shri Mata Vaishno Devi University

1.	Prof.(Dr.) R.N.K.Bamezai Vice Chancellor	Chairman
2.	Dr. M. Gopal, Professor Department of Electrical Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110016.	External Member
3.	Ar. J . K. Gupta, Director College of Architecture IET Bhaddal, Hno-344, Sector 40A, Chandigarh.	External Member
4.	Dr. P.K.Jain, Professor Department of Mechanical & Industrial Engineering, Indian Institute of Technology - Roorkee, Roorkee - 247667, Uttarakhand.	External Member
5.	Dr. B.H.Boruah, Professor of Philosophy, Department of Humanities & Social Sciences, Indian Institute of Technology - Kanpur, Kanpur - 208016, Uttar Pradesh.	External Member
6.	Dean of Students	Ex-Officio Member
7.	Mr. Subrata Deb Librarian	Ex-Officio Member
8.	Prof. (Dr.) M.L.Garg Dean, College of Engineering	Ex-Officio Member
9.	Prof. (Dr.) V.Verma Dean, College of Sciences	Ex-Officio Member
10.	Prof. (Dr.) Dinabandhu Mukhopadhyay Dean, College of Mgt.	Ex-Officio Member
11.	Dean, College of HSS	Ex-Officio Member
12.	Prof. C.L.Razdan Director, School of Architecture & Landscape Design	Ex-Officio Member
13.	Dr. V.K.Bhat Director, School of Mathematics	Ex-Officio Member
14.	Dr. Vipin Kakkar Director, School of Electronics & Communication Engineering	Ex-Officio Member
15.	Dr. (Mrs.) Vandhana Sharma, Director I/c, School of Languages	Ex-Officio Member
16.	Dr. S.K. Wanchoo Director I/c, School of Innovation & Community Development	Ex-Officio Member
17.	Dr. Yugal Khajuria Director I/c, School of Physics	Ex-Officio Member
18.	Mr Balbir Singh Director I/c, School of Mechanical Engineering	Ex-Officio Member
19.	Mr. Rakesh Sharma Director I/c, School of Infrastructure Technology & Resource Management.	Ex-Officio Member
20.	Registrar, SMVDU	Secretary

## The Finance Committee

1	Prof. R.N.K. Bamezai Vice-Chancellor, SMVD University(Chairman)	2	Shri R.K. Goyal, IAS, Chief Executive Officer, Shri Mata Vaishno Devi Shrine Board, Katra, Member (ex-officio).
3	Shri Ravi Magotra, KAS Director General Budget, Finance Deptt., J&K Govt., Member.	4	Dr. Mandeep K. Bhandari, IAS Addl. Chief Executive Officer, Shri Mata Vaishno Devi Shrine Board, Member (ex-officio).
5	Shri Rohit K. Khajuria Chief Accounts Officer, Shri Mata Vaishno Devi Shrine Board, Member (ex-officio).	6	Shri S.K. Sadhotra, KAS, Finance Officer, Shri Mata Vaishno Devi University, Member- Secretary
7	Shri Vishal Gupta Dy. Finance Officer, SMVD University, Co-opted Member, Finance Committee, SMVDU		

## The Building & Works Committee

1	Prof. R.N.K. Bamezai Vice-Chancellor, SMVD University(Chairman)	2	Dr. Mandeep K. Bhandari, IAS Addl. Chief Executive Officer, Shri Mata Vaishno Devi Shrine Board, Member (ex-officio).
3	Shri. H.L. Maini, Technical Advisor SMVDU, Special Invitee	4	Prof. M.L. Garg Dean, College of Engineering, SMVDU, Member
5	Prof. Dinabandhu Mukhopadhyay, Dean, College of Manangement, SMVDU, Member.	6	Prof. C.L. Razdan I/c, Works & Estates, SMVDU & Director, SALD, SMVDU, Member (ex-officio).
7	Sh. D.D. Gorkha, Superintending Engineer (SE), PWD Reasi, Member (ex-officio).	8	Shri. S.K. Sadhotra, KAS, Finance Officer, Shri Mata Vaishno Devi University, Member (ex-officio).
9	Sh. Kamal Sharma, University Engineer, SMVDU, Member (ex-officio).	10	Ms. Roop Avtar Kaur, IFS Registrar, SMVDU, Member Secretary

## **The Board of Studies**

In pursuance to the statutes 12(5) & 12(6) of the first statutes of the university, each school of the university has Board of Studies with the power and duties mentioned in the statutes of the university. The meeting of Board of Studies of different schools of the university in the period under review was held as under:

1. School of Architecture & Landscape Design- 4.10.2010 and 1.04.2011
2. School of Biotechnology- 4.05.2011
3. School of Business- 4.02.2011
4. School of Business Economics- 4.02.2011
5. School of Biology & Chemistry-
6. School of Computer Science & Engineering- 27.04.2011
7. School of Electronics & Communication Engineering- 6-10-2010, 31-03-2011 & 21-05-2011
8. School of Infrastructure Technology & Resource Management-
9. School of Innovation & Community Development-
10. School of Language & Literature- 20.04.2011
11. School of Mechanical Engineering- 17.03.2011
12. School of Mathematics- 28.04.2011
13. School of Physics- 15.03.2010

# COLLEGES & SCHOOLS



# SCHOOL OF ARCHITECTURE & LANDSCAPE DESIGN



## Courses offered:

Bachelor of Architecture 05 year course.

## Faculty

S.no	Name of Faculty	Qualification	Specialization/Areas of Interest
1.	<b>Prof. C.L Razdan</b>	B. Architecture	<b>Area of Interest</b> :Hill Architecture, Traditional Architecture, Behaviour of Buildings with respect to Climate, Green Architecture. Building in natural settings
2.	Dr. Amit Sharma	B.E (Gold Medalist) M.Tech (Geotechnical Engg.-NBCC  AWARDEE-IIT Delhi) Ph.D (Civil Engg.- IIT Delhi)	<b>Specialization</b> :Finite Element Analysis, Soil structure Interaction, Numerical Modeling of Soil Behaviour, Geotechnology for Railway Tracks and Pavements, Geotechnical Evaluation of Soil and Granular Materials by Triaxial Shear Testing and Instrumentation in Soil Mechanics. <b>Areas of Interest</b> : Soil Mechanics and Foundation Engineering; Analysis of Determinate and Indeterminate structures, Design of RCC, Steel and Pre stressed Concrete Structures and Instrumented Model Testing of Prototypes under Monotonic and Cyclic loading.
3.	Mr. V.K Dogra	M.Tech, B.E Ph.D pursuing (Civil Engineering - Structures)	<b>Specialization</b> :Structural Engineering &Large span structures <b>Areas of Interest</b> : Design of Large Span Structures with Folded Plates, Shells, Domes, Structural Design of Flat Slabs, Flat slabs with drops and pyramids.
4.	Ar. Abhney Gupta	M. Arch (Pursuing), B.Arch	<b>Areas of Interest</b> :Design Housing & Green Buildings
5.	Ar. Arshia Khajooria Hazarika	M. Arch , B.Arch (Honrs)	<b>Specialization</b> : Architecture, <b>Areas of Interest</b> : Green Building &. Earthquake resistant structures, Rain water harvesting, Sustainable Cities, Highrise buildings
6.	Ar. VikasBhola	PhD(Landscape Architecture)- Pursuing ,M.L.Arch, B.Arch	<b>Specialization</b> : Landscaping, Eco-friendly structures, Rain water harvesting, Conservation and sustainable environment and spaces both within and beyond the built environment. Dealing in diverse issues ranging from nature in the city with the larger landscapes which includes social,



			cultural, ecological, ethnic and philosophical approaches. <b>Areas of Interest</b> : Eco-Friendly Buildings, Glass & Bamboo Architecture.
7.	Ar. Sumant Sharma	M.B.A(Real Estate), B.Arch (Hours)	<b>Specialization</b> :Real Estate Management, Sustainable Urban development, Architecture <b>Areas of Interest</b> : Architecture, Project Management.
8.	Ar. Navin Gupta	B.Arch	<b>Areas of Interest</b> : Building Construction & Techniques
9.	Ar. Abhimanyu Sharma	M. Arch (Pursuing), B.Arch	<b>Areas of Interest</b> : Architecture Design, Earthquake resistant construction, Low-cost construction techniques.
10.	Ar. Anoop Sharma	M. Arch (Pursuing), B.Arch (Gold medalist)	<b>Areas of Interest</b> : 21st Century Housing, Energy efficient Architectural design, Expression & formalism in architecture, Furniture Designing.

### 3. Other Academic/awareness Activities:

- a. Guest lecture by Dr. Sangeet Sharma: Dr. Sangeet Sharma is practicing architect and academician. Dr. Sharma visited School of Architecture & Landscape Design on 22nd and 23rd of Oct. 2010. He interacted with students and delivered lectures on green buildings, sustainable architecture and planning of the city of Chandigarh.
- b. Guest lecture by Prof. RavinderBhan. Prof. Ravindra Bhan a renowned Landscape Architect based at Delhi visited school of Architecture from November 15, 2010 to November 17, 2010. His lecture series to students of Architecture highlighted the importance of Landscape Architecture in today's fast changing and complex world.





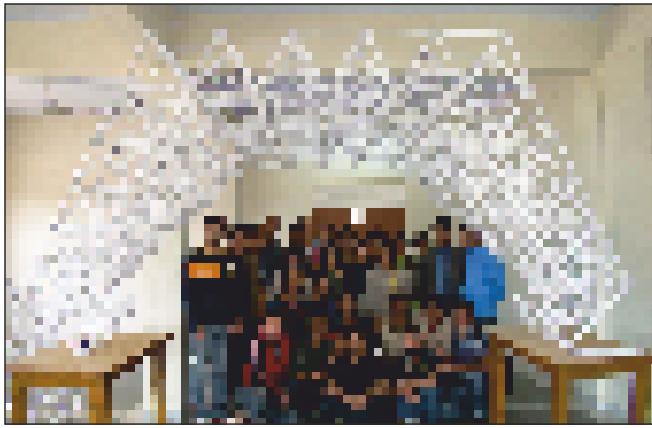
*Guest lecture by Prof. Ravinder Bhan*

c. Guest lecture by Prof. Aniket Bhagwat.

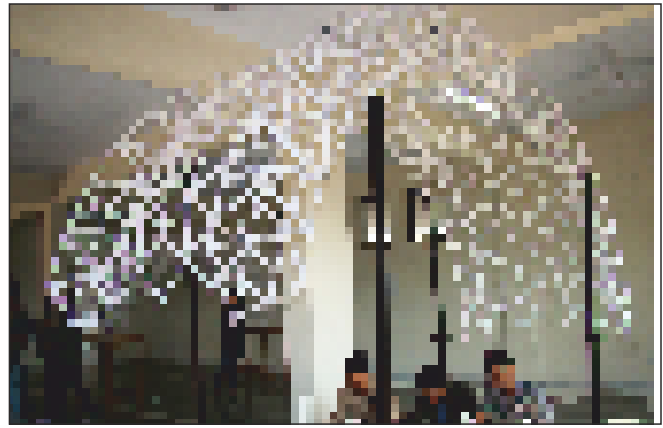
A special lecture was delivered on 31st March, 2011 from 03:00 to 5:00 PM in lecture hall D. Students from all semesters were present in the hall. Prof. Bhagwat discussed his various projects of different nature including landscape with the students of SALD. Prof. Bhagwat is a practicing architect in Ahmedabad; he has also worked as Faculty member in CEPT Ahmedabad. He appraised students of architecture about the role of site planning and landscape designing to make architecture more conducive and sustainable especially in present day ecological concern, this program of lectures was further reinforced by some of the existing examples of structures in landscape planned and designed by him in different environs and With different functions.



*Deviratna hotel project in Jaipur  
by Aniket Bhagwat*



*SPACE FRAME*



*ARCHES AND VAULTS*

- d. Space Frame is fabricated by the final year (9th semester) students of School of Architecture & Landscape Design under the valuable guidance and supervision of Structural Engineer, Mr. V. K. Dogra, Assistant Professor, SALD. In the making of the dome, A4 size waste papers are used. Papers are rolled to form tubes (structural members), which are connected with the help of bolts and nuts to form the space frame. All the members are of the same size.
- e. Arch and vault structure is fabricated by the final year (9th semester) students of School of Architecture & Landscape Design under the valuable guidance and supervision of Structural Engineer, Mr. V. K. Dogra, Assistant Professor, SALD.

The vaulted roof is supported by two arches at the edges. A4 size papers are used to form the arches and the vault. Papers are rolled to form tubes (structural members), which are connected with the help of nuts and bolts to form the arches and the vault. The sizes of the members are different at different locations due to curvature in both directions.

- f) The students various semesters of the School of Architecture during last one year were taken to site visits to the following :
  - Trip to Country Inn for Study of a Resort in Natural Settings for semester V conducted on September 26th ,2010.
  - Study trip to Manasar on October 10th for the purpose of understanding local or vernacular traditions wedded to technology for semester V.
  - Study trip to Sidhra in August ,September and October 2010 as a part of site visit for semester IX design problem.
  - Students of semester IV were taken for a Site visit to Patnitop in connection with the Design problem of Recreation center proosed in the hilly terrain of that place on 12 th January 2011.
  - Site visit if semesters VI and semesters VIII to Jammu on 20th January 2011 in context of the design problem.
  - Visit to Country Inn by the students of semester IV on 4th March 2011 for studies various service areas for Resort like air-conditioning, fire-fighting and health club facilities.
  - The students of semester VIII were taken to study Katra Market on 9th March 2011 for Urban Renewal Project.
  - A trip was organized to site in connection with semester II Design problem near Ritz Manor Hotel ,Jammu on 16th March 2011.

**4. Publication by Faculty: Papers published in conference proceedings.**

- a. Ar. Arshia Khajooria Hazarika ,**"Sustainable Growth of Existing Cities-A Myth or Reality"**,International Conference on Urbanism & Green Architecture at NIT Hamirpur, H.P 30<sup>th</sup> -31<sup>st</sup> Oct. 2010
- b. Ar. Vikas Bhola **"Methodology of conserving ecological conditions of religious Place-A Case study Shri Mata Vaishno Devi, Katra "**, International Conference on Urbanism & Green Architecture at NIT Hamirpur, H.P 30<sup>th</sup> -31<sup>st</sup> Oct. 2010
- c. Ar. Sumant Sharma,Ar.Ashwani Kumar,Ar.Anoop Sharma,**"New Urbanism Model for Indian Cities"** , International Conference on Urbanism & Green Architecture at NIT Hamirpur, H.P 30<sup>th</sup> -31<sup>st</sup> Oct. 2010

**5. Papers presented by faculty:**

- a. Ashwani Kumar, Sumant Sharma, Anoop Sharma, **" Role of Building Regulations for Energy Optimization in Hill Towns"**, presented in International conference on Advances in Renewable Energy ICARE 2010 held on June 24-26, 2010 at Department of Mechanical Engineering, MANIT Bhopal.
- b. Ar. Arshia Khajooria Hazarika ,**"Sustainable Growth of Existing Cities-A Myth or Reality"**,International Conference on Urbanism & Green Architecture at NIT Hamirpur, H.P 30<sup>th</sup> -31<sup>st</sup> Oct. 2010
- c. Ar. Vikas Bhola **"Methodology of conserving ecological conditions of religious Place-A Case study Shri Mata Vaishno Devi, Katra "**, International Conference on Urbanism & Green Architecture at NIT Hamirpur, H.P 30<sup>th</sup> -31<sup>st</sup> Oct. 2010
- d. Ar. Sumant Sharma,**"New Urbanism Model for Indian Cities"** , International Conference on Urbanism & Green Architecture at NIT Hamirpur, H.P 30<sup>th</sup> -31<sup>st</sup> Oct. 2010
- e. Ar. Anoop Sharma ,**" Design Guidelines For Sustainable Campuses"**,International Conference on Clean Energy technologies and energy efficiency for sustainable development held at Dehradun during 27<sup>th</sup>-29<sup>th</sup> dec-2010.

**6. 1 Papers Accepted**

- i. Ar. Arshia Khajooria Hazarika ,Ar.Sumant Sharma, Ar Anoop Sharma**"Urban Planning :A cultural and ecological reflection"**,11 International Congress of Asian Planning School Association, conference at Tokyo University, Tokyo, Japan 19<sup>th</sup> -21<sup>st</sup> Sep.. 2011
- ii. Ar Sumant Sharma, Ar. Arshia Khajooria Hazarika ,Ar Anoop Sharma**"Urban Sprawl vis-a vis Economic drift"**,11 International Congress of Asian Planning School Association, conference at Tokyo University, Tokyo, Japan 19<sup>th</sup> -21<sup>st</sup> Sep.. 2011
- iii. Ar Anoop Sharma, Ar. Arshia Khajooria Hazarika , Ar Sumant Sharma **"AFFORDABLE HOUSING: A NEW PARADIGM IN 21ST CENTURY INDIAN CITY"**,11 International Congress of Asian Planning School Association, conference at Tokyo University, Tokyo, Japan 19<sup>th</sup> -21<sup>st</sup> Sep.. 2011
- iv. Ar. Arshia Khajooria Hazarika **"Bio- Climatic Highrise for Sustainable Housing"**, International Conference on Rapid Advances in Sustainable Architecture , at Jalandhar India, 26<sup>th</sup> -27<sup>st</sup> August 2011.
- v. Ar. Anoop Sharma,Ar. Arshia Khajooria Hazarika , Ar Sumant Sharma Ar Abhimanyu

Sharnma" **Methodologies for desired Innovative Educational Environment-A Sustainable Campus**", International Conference on Rapid Advances in Sustainable Architecture , at Jalandhar India, 26<sup>th</sup> -27<sup>st</sup> August 2011

## **6.2 Short-term Course**

- a) Ar. Ashwani Kumar, Ar. Arshia K. Hazarika, Ar. Sumant Sharma, Ar. Abhimanyu Sharma & Ar. Anoop Sharma from school of Architecture & Landscape Design, SMVDU attended the course on **Passive Solar Building Design** from 7-11<sup>th</sup> June-2010. This short term course was organised by Departments of Architecture, mechanical & civil engineering- NIT Hamirpur (H.P).

# SCHOOL OF BIOTECHNOLOGY



## Courses offered

B.Tech (Industrial Bio Technology)

M.Sc. (Bio Technology)

## Faculty

S. No.	Name	Designation	Qualification
1	Prof. V. Verma	Prof. & Director	Ph. D
2	Dr. Sharada M. Potkuchi	Assistant Prof.	Ph. D, Post Doc.
3	Dr. Ratna Chandra	Assistant Prof.	Ph. D
4	Dr. S. Vaishnavi	Lecturer	Ph. D
5	Mr. Parvez S. Slathia	Lecturer	M. Sc., NET
6	Dr. Preeti Sharma	Lecturer	Ph. D
7	Dr. Anil Kumar	Lecturer	Ph. D, NET
8	Mr. Arvind Yadav	Lecturer	M.Tech
9	Dr. S. Rasool	Lecturer	Ph. D.
10	Dr. V.K. Rai	Lecturer	Ph. D, NET, Post Doc.
11	Dr. Indresh Kumar	Lecturer	Ph. D, Post Doc.
12	Dr. Indu Bushan	Associate Lecturer	Ph. D

## Conferences /Workshops/Seminars Organized

1. Workshop on Bioinformatics: Converting Data to Knowledgebase on 8th-9th Sept., 2010.
2. International Conference on Mitochondrial Research and Medicine (ICMRM-2010), 12th- 13th Nov., 2010.

## Other Academic/Awareness Activities

1. Verma.V visited Kansas State University, Manhattan, Kansas, USA from Nov.18-21, 2010 under Industry-Academia programme of the university. Prof. Verma was invited to USA jointly by M/S Prathista International Inc., USA, & Department of Grain Science & Industry, Kansas State University, Manhattan, Kansas, USA. The visit was planned to explore the possibilities of establishing research collaborations with Kansas State University, Manhattan, Kansas, USA and with M/S Prathista International Inc., USA under private-public partnership programme.

2. Potukuchi S.M. Industrial visit for B. Tech (IBT) students of Sem VII & V to visit Production Unit Proctor & Gamble Hygiene & Health Care Ltd., Baddi; Quality testing and production Unit of Hash Biotech Labs Pvt. Ltd. Mohali and Chandigarh Government Art & Science Museum, Chandigarh; 17-21 Nov. 2010.
3. Potukuchi S.M. Organized visit of Research Scientists of Hash Biotech Labs, Chandigarh who interacted with the students and faculty members of School of Biotechnology. They presented the various research activities and products of Hash Biotech Labs and detailed about their production plant at Dasuya.
4. Fugat I.K. Visiting Professor at Konkuk University, Seoul, S. Korea; June-July 2010.
5. Potukuchi S.M. "Special Tree Talk" at Shri Mata Vaishno Devi University, Katra; 12<sup>th</sup> March 2011.
6. Potukuchi S.M. 15 day's Industrial training at M/s. Prathista Industries Limited, Chuduppal, Hyderabad on "*Fermentation Technology of various industrially important products*"; 15-30 March 2011.

### **Publications of Faculty**

1. Akhoun, B.A., Gupta, S.K., Verma, V., Dhaliwal, G., Srivastava, M., Gupta, S.K. and Ahmad, R.F. *In silico* designing and optimization of anti-breast cancer antibody mimetic oligopeptide targeting HER-2 in women. *J. Molecular Graphics and Modelling*, 28, (2010): 664-669.
2. Kour, A., Shawl, A.S., Rehman, S., Qazi, P.H., Suden, P., Sultan, P., Verma, V. and Qazi, G. N. An endophytic fungus from *Juniperus recurva* producing podophyllotoxin with other biological activity. *Annals of Microbiology*, 59(1), (2010): 157-161.
3. Mallubhotla, S., Ahuja, A., Kumar, A., Sharma, R.D., Verma, V., Suri, K.A. and Vij, S.P. Field performance, RAPD analysis and withanolide profiling in micropropagated plants of WSR - An elite cultivar of Indian Ginseng (*Withania somnifera* L. Dunal). *Acta Horticulture* (ISHS), 865, (2010):199-207.
4. Gupta, A., Malaviya, A., Potukuchi S.M. and Narayan, J. Three Dimensional structure modeling and analysis of Ribulose 1,5-bis phosphate carboxylase of *Hypericum perforatum*. *Conference Proceedings of International Conference on Bioinformatics and Computational Biology (BIOCOMP'10)*, 3, (2010): 807-810; Las Vegas, Nevada, USA.
5. Gupta, A., Kumar, S., Trivedi, A., Vaishnavi, S., Rastogi, S., Srivastava, P. and Runthala, A. *In silico* microarray analysis for *Helicobacter Pylori* using gene expression data. *International Journal of Applied Biology and Pharmaceutical Technology*, I (3, (2010): 1175 – 1180.
6. Rai, V.K., Singh, S., Singh, P. and Yadav, L.D.S. Carbohydrate Building Block in Ugi 3-Component Coupling Reaction: Convenient Annulation of Iminosugars on Imidazoles. *Synthesis*, (2010): 4051-4056.
7. Singh, S., Singh, S., Rai, V.K. and Yadav, L.D.S. 2010. N-Heterocyclic Carbene Catalyzed Cross Coupling of Aromatic Aldehydes with Baylis-Hillman Bromides: An Easy Access to  $\alpha$ -Arylidene- $\gamma$ -keto Esters. *Synlett*, (2010): 2649-2653.
8. Singh, S., Rai, V.K., Singh, P. and Yadav, L.D.S. Expedient synthesis of functionalized



piperidines via NHC-catalyzed regioselective aziridine ring-opening with enals. *Synthesis*, (2010): 2957-2964.

9. Yadav, L.D.S., Rai, V.K., Singh, S. and Singh, P. NHC-catalyzed efficient synthesis of  $\beta$ '-amino enones via carbonyl umpolung reaction of enals with aziridines; *Tetrahedron Lett.*, 51, (2010): 1657-1662.
10. Fugat, I.K., Rana, S., Cho, J.W. and Rode, C.V. Synthesis of hybrid 1,2,3-triazolo- $\delta$ -lactams/lactones using intermolecular Huisgen [3+2] dipolar cycloaddition "click-chemistry" in water. *Tetrahedron: Asymmetry*, 21, (2010): 352-355.
11. Rana, S., Cho, J.W. and Fugat, I.K. Synthesis and Characterization of Polyurethane-Grafted Single-Walled Carbon Nanotubes via Click Chemistry. *Journal of Nanoscience and Nanotechnology*, 10, (2010): 5700-5707.
12. Fugat, I.K. and Rode, C.V. Proline catalyzed direct diastereoselective 6-*enolexo* aldolization: Towards for the synthesis of imino sugars (DNJ). *Tetrahedron: Asymmetry*, 21, (2010): 2703-2708.
13. Bhushan, I., Kumar, A., Modi, G. and Jamwal, S. Chiral resolution of differently substituted racemic acetyl-1-phenyl ethanol using lipase from *Bacillus subtilis*. *Journal of Chemical Technology & Biotechnology*, 86, (2011): 315-318.
14. Fugat, I.K. Engineering Chemistry. (ISBN 978 93 80446 15 8), Novateh Scientifics & Informations, New Delhi.
15. Hussain, M.A., Verma, V. and Qazi, G.N. 2011. Population genetic structure of rhizomatous *Picrorhiza kurroa* Royle - Molecular markers, polymorphism and secondary metabolite content in *Picrorhiza*. LAP Lambert Academic Publishing, GmbH & Co., Germany; pp: 1-89.
16. Baloria, U., Akhoun, B.A., Gupta, S.K., Sharma, S. and Verma, V. 2011. *In silico* proteomic characterization of human epidermal growth factor receptor 2 (HER-2) for the mapping of high affinity antigenic determinants against breast cancer. *Amino Acid*, DOI: 10.1007/s00726-010-0830-x, Epub ahead of print.
17. Akhoun, B.A., Gupta, S.K. and Verma, V. 2011. Comparative analysis of mesothelial invasion by single and multi-wall carbon nanotubes using computational approach. *J Biomed Nanotechnol.* Vol.7, 182-183.
18. Akhoun, B.A., Slathia, P.S., Sharma, P., Gupta, S.K. and Verma, V. 2011. *In Silico* identification of novel protective VSG antigens expressed by *Trypanosoma brucei* and an effort for designing a highly immunogenic DNA vaccine using IL-12 as adjuvant. *Microbial Pathogenesis*, DOI:10.1016/j.micpath.2011.01.011.
19. Kumar, A., Bisht, P., Gupta, A., Potukuchi, SM. and Srivastava, A.K. 2011. Comparative Modeling Study of RNA Polymerase C of *Hypericum perforatum*. *Journal of Computational Intelligence in Bioinformatics*; 6(1): 47-54.

### **Papers Presented/Workshop/Short term Courses Attended by Faculty**

1. Verma, V. Production of microorganisms by fermentation and their use as PGPRS and biological control agents on crops as part of organic farming. *Indo-Italian International Conference on Genomics Sciences-ICGS 2010*, Madurai Kamraj University, Madurai, 12-14 Nov. 2010.

2. Akhoon, B.A., Ahmad, R.F. and Verma, V. Drug resistance mutation mapping of cytochrome b protein in *Plasmodium falciparum* enhancing fitness of atovaquone. 6<sup>th</sup> JK Science Congress-Science Technology and Sustainable Development, Kashmir University, Srinagar, J&K, 2-4 Dec. 2010.
3. Rasool, S., Akhlaq, B., Johri, S. and Verma, V. Directed evolution of lipase enzyme for enhanced hydrolytic activity. 51<sup>st</sup> Annual Conference of Association of Microbiologists of India & International Symposium on Recent Advances in Cross-disciplinary Microbiology: Avenues & Challenges; Birla Institute of Technology, Mesra, Ranchi, Jharkhand, 14 – 17 Dec. 2010.
4. Rasool, S., Singh, R., Khajuria, R., Gupta, N., Kumar, V. and Verma, V. Alkalophilic Cold active Protease of *Bacillus* sp. isolated from the Patnitop region of J&K. 51<sup>st</sup> Annual Conference of Association of Microbiologists of India & International Symposium on Recent Advances in Cross-disciplinary Microbiology: Avenues & Challenges; Birla Institute of Technology, Mesra, Ranchi, Jharkhand, 14 – 17 Dec. 2010.
5. Gupta, A., Malaviya, A., Potukuchi S.M. and Narayan, J. Three Dimensional structure modeling and analysis of Ribulose 1,5-bis phosphate carboxylase of *Hypericum perforatum*. International Conference on Bioinformatics and Computational Biology (BIOCOMP'10); Universal Conference Management Systems & Support (UCMSS), Las Vegas, USA, 12-15 July 2010, Paper ID BIC 3150.
6. Slathia P.S. A common vaccine design for three flaviviruses: an *In Silico* Approach. The 4<sup>th</sup> Vaccine Congress; Vienna, Austria. 3-5 Oct. 2010.
7. Slathia P.S. Cellulosic ethanol production from *Saccharum munja* and *Typha latifolia*. North Zone Meet and National Symposium on Microbial Diversity and Bio-prospecting; Department of Botany, University of Jammu, Jammu, 29-30 Oct. 2010.
8. Slathia P.S. Targeting Cystathionine beta lyase in Leishmania: *In Silico* Approach. 10<sup>th</sup> International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Amsterdam, The Netherlands, 3-5 Nov. 2010.
9. Fugat, I.K. Organocatalysis: A Green approach for the synthesis towards aminopolyols. National Conference on Green Chemistry (NCGC-2010); SRM University, NCR, Ghaziabad, 16-17 Sept. 2010.
10. Prof. V. Verma attended VII BRSI convention of the Biotech Research Society, India (BRSI) & Indo-Italian International conference on Genomic Sciences at School of Biological Sciences Madurai Kamaraj University, Madurai from Nov.12-14, 2010.
11. Potukuchi, S.M. UGC Sponsored National Conference on Nanoscience and Nanotechnology – A Revolutionary Discipline, Physics Department, HMV College, Jalandhar, 09 Aug. 2010.
12. Vaishnavi, S. UGC Sponsored Orientation programme, Jamia Milia Islamia, New Delhi, 20 July-16 Aug. 2010.
13. Kumar, A. National Symposium on New Trends in Materials Research, Indian Association of Solid State Chemists & Allied Scientists, University of Jammu, Jammu, 18-20 Nov. 2010.

14. Dhar, P., Sharma, M., Verma, V., Ahuja, A. and Mallubhotla S. Accumulation of solasodine in cell cultures, proliferative shoots and *in vitro* regenerated plants of *Solanum nigrum* (L.)" *National Conference on Metabolomics, Transcriptomics and Proteomics (NCMTP-2011)*", Shruti Auditorium, SGPGIMS, Lucknow, 29-30 Jan. 2011.
15. Kumar, A., Bisht, P., Gupta, A., Potukuchi, S.M. and Srivastava, A.K. 2011. Comparative Modeling Study of RNA Polymerase C of *Hypericum perforatum*. *National Conference on Metabolomics, Transcriptomics and Proteomics (NCMTP-2011)*", Shruti Auditorium, SGPGIMS, Lucknow, 29-30 Jan. 2011.
16. Slathia, P.S., Yadav, A.K. and Sharma, P. DNA Vaccine against Ebola Virus: an *In Silico* approach. *Silver Jubilee Symposium on Bioinformatics-BTISNET in India*, Pondicherry University, 02 Feb. 2011.
17. Slathia, P.S., Yadav, A.K. and Sharma, P. Molecular modelling and Drug Docking studies on Cystathionine-beta-lyase in *Salmonella enterica*. *Silver Jubilee Symposium on Bioinformatics-BTISNET in India*. Pondicherry University, 02 Feb. 2011.

## Research Projects

S. No.	Title of project	Funded by	Duration	Grant amount (Rs.)
1.	Establishment of Bioinformatics Infrastructure (BIF) for the promotion of Biology Teaching through Bioinformatics	Apex Bioinformatics Centre, Dept. of Biotechnology, New Delhi	2007-2012	34 Lakhs
2.	Establishment of "Herbal Garden-Trikuta Hills" at SMVD University	National Medicinal Plants Board, Ministry of Health & Family Welfare, Govt. of India, New Delhi	2007-2010	10 Lakhs
3.	Fermentative Production of Lactic acid from Mahua flowers	Tribal Cooperative Marketing Development Federation of India (TRIFED), Govt. of India, New Delhi	2009-2010	14.95 Lakhs
4.	DNA fingerprinting of selected medicinal plants	Dabur India Ltd., New Delhi		5.0 Lakhs
5.	Integrated approach for Bamboo improvement: micropropagation, agroforestry, cultivation	National Bamboo Mission, Govt. of India, New Delhi		20.0 Lakhs
6.	Exploring <i>Myxobacteria</i> from the state of Jammu and Kashmir for novel enzymes and secondary metabolism	Department of Science & Technology (under Fast track Scheme), Govt. of India, New Delhi	2010-2013	20.4 Lakhs
7.	Access to Novel Imino/Thiosugar Scaffolds from Renewable Bioresources	Council of Scientific & Industrial Research (CSIR), Govt. of India, New Delhi	2010-2013	20.0 Lakhs
8	Organocatalytic asymmetric Mannich/Intramolecular cyclization as formal [3+2] cycloaddition: One-pot synthesis of substituted pyrrolidine ring systems	UCG, Govt. of India, New Delhi	2010-2013	9,01,800/-
9	V-SAT enabled Mobile e-Learning Terminals	MHRD, Nationally Coordinated research project, Govt of India	2009-2013	

## **Academic Achievements/Lectures/Talks Delivered By Faculty**

1. Vaishnavi, S. Importance of e-learning for teaching in remote and un-served rural areas in India. *UGC Sponsored Orientation programme*, Jamia Milia Islamia, New Delhi, 12 Aug. 2010.
2. Slathia, P.S. Databases in Biology. Workshop on Bioinformatics: *Converting Data to Knowledgebase*. Bioinformatics Centre, School of Biotechnology, Shri Mata Vaishno Devi University, Kakryal, 8-9 Sept. 2010.
3. Rai, V. K. Stringent and growing environmental regulation in Green Chemistry. *12<sup>th</sup> International Conference of International Academy of Physical Sciences (CONIAPS)*, University of Rajasthan, Jaipur; 22-24 Feb. 2010.

## **Awards**

1. Verma, V. Industrial Medal Award 2009 by Biotech Research Society of India, 2010 in recognition of his pioneering work in field of Microbial Biotechnology. The award was given for a technology transferred to an industry which has proved viable and resulted in successful commercial exploitation in India.
2. Rasool, S. I<sup>st</sup> prize for Poster/Oral Presentation in the area of Enzyme Technology at: the paper titled *51<sup>st</sup> Annual Conference of Association of Microbiologists of India & International Symposium on 'Recent Advances in Cross-disciplinary Microbiology: Avenues & Challenges'* Birla Institute of Technology, Mesra, Ranchi, Jharkhand, 14 – 17 Dec. 2010.

# SCHOOL OF BIOLOGY & CHEMISTRY

## Courses Offered

1. PhD

## Faculty

S. No.	Name	Designation	Qualification
1	Dr. Anil Kumar	Lecturer	PhD, GATE, NET
2	Dr. Indresh Kumar Fugat		PhD, Post-doc

## Other Academic/Awareness Activities

1. Fugat I.K. Visiting Professor at Konkuk University, Seoul, S. Korea; June-July 2010.

## Research Projects

S. No.	Title of project	Funded by	Duration
1.	Enantioselective Synthesis and Biological Screening of some New $\beta$ -Blockers	UGC-New Delhi	2011
2.	Access to potentially antiviral novel nucleosides using microwave methodology	UGC-New Delhi	2011
3.	Access to novel imino-/thiosugar scaffolds from renewable bioresources	UGC-New Delhi	2011
4.	NHC-/enamine-iminium catalysis in stereocontrolled construction of bioactive scaffolds.	UGC-New Delhi	2011
5.	Organocatalytic asymmetric Mannich/ Intramolecular cyclization as formal [3+2] cycloaddition: One-pot synthesis of substituted pyrrolidine ring systems	UGC-New Delhi	2011

# SCHOOL OF BUSINESS



## Courses Offered

1. MBA

## Faculty

S. No.	Name	Designation	Qualification
1	Prof. D. Mukhopadhyay	Professor	PhD
2	Dr. Sunil Giri	Assistant Professor	PhD
3	Dr. Jyoti Sharma	Assistant Professor	PhD
4	Dr. Sushil Mehta	Assistant Professor	PhD
5	Dr. H.G. Mishra	Assistant Professor	PhD
6	Dr. Deepak Jain	Lecturer	PhD
7	Mr. Sanjay Kumar Mishra	Lecturer	MBA
8	Ms. Arti Devi	Lecturer	MBA
9	Ms. Rashi Taggar	Lecturer	MBA
10	Ms. Shazia Bukhari	Lecturer	MBA

## Conferences/Seminars/Workshops organized

1. A two-day workshop for Indian Forest Service Officers, "Creating a Sustainable and Motivated Organization" was organized by College of Management, Shri Mata Vaishno Devi University from 17-18 February, 2011.

## Publications of Faculty

1. Sharma, Suparn, Jyoti and Arti Devi, (2011), "Role Stress among Banking Employees: A Logit Approach", accepted for publication in International Journal of Strategic Organisation and Behavioural Science.
2. Mehta, Sushil (2011) "Microfinance Movement: An Impact Study" in International Conference on Financial Innovations and Change for Survival and Growth in Management Development Institute, Gurgaon 7-8 January.
3. Sharma, Jyoti and Parul (2011), 'Work Addiction: A Poison by Slow Motion', Journal of Economics and Behavioural Studies, Vol. 2(3), March.
4. Taggar, Rashi and Sunil Giri, S (2011), "Long Term Oriented Buyer Supplier Relationship- A study of select Textile units in Ludhiana", IJMMR, Vol. 2, Issue 1 January.

# SCHOOL OF BUSINESS ECONOMICS





## Courses Offered

1. MBA (BE)

## Faculty

S. No.	Name	Designation	Qualification
1	Dr. Suparn Sharma	Assistant Professor	PhD
2	Dr. Kakali Majumdar	Assistant Professor	PhD
3	Dr. Saurabh Shrivastava	Assistant Professor	PhD
4	Dr. Ashutosh Vashishtha	Assistant Professor	PhD
5	Dr. Meenakshi Gupta	Lecturer	PhD
6	Dr. Rooplal Sharma	Lecturer	PhD
7	Mr. Pabitra Kumar Jena	Lecturer	M.A

### Conferences/Seminars/Workshops organized

1. A two-day workshop for Indian Forest Service Officers, "Creating a Sustainable and Motivated Organization" was organized by College of Management, Shri Mata Vaishno Devi University from 17-18 February, 2011.

### Other Academic/ Awareness Activities

1. Roop Lal Sharma participated in National Seminar on "Aviation and Outer Space: Science, Economics and Law for Sustainable Development". Held at Shri Mata Vaishno Devi University, Karta, April 24 - 25, 2011.

### Publications of Faculty

1. Mor, Surrender and Suparn Sharma, (2011), "Measurement of Technical Efficiency in Dairy Sector of India: A Stochastic Frontier Production Function Approach, accepted for publication in the Academic Journal of TMC, Vol. 5(2), Singapore.
2. Sharma, Suparn, Jyoti and Arti Devi, (2011), "Role Stress among Banking Employees: A Logit Approach", accepted for publication in International Journal of Strategic Organisation and Behavioural Science.
3. Sharma, Jyoti and Parul (2011), 'Work Addiction: A Poison by Slow Motion', Journal of Economics and Behavioural Studies, Vol. 2(3), March.

### Paper Presented/Workshops/Short term Courses Attended by Faculty

1. Sharma, Suparn and Raina, Dalip (2011), "A Study of Stochastic Frontier Approach towards Indian Commercial Banks", Annual Conference, the Indian Econometric Society, Devi Ahaliya University, Indore.
2. Sharma, Jyoti and Parul (2011), "A New Era of Long Working hours and its Impact on Employee Well being, University of Jammu, Jammu.
3. Suparn Sharma conducted a day training session on "Stress Management: Remedial Measures" at Management Development Programme (in-house) in

collaboration with Micro, Small and Medium Enterprise Development Institute, Jammu at Cadila Pharmaceuticals Ltd., IGC Samba, Jammu on 13<sup>th</sup> January, 2011.

4. Suparn Sharma conducted a training session on "Constitution of Business Plan Formulation & Precautions" in the *Faculty Development Programme* conducted by Government College of Engineering and Technology, Jammu on 15<sup>th</sup> January, 2011.
5. Suparn Sharma conducted a training session on "Coping Techniques of Stress Management" *Management Development Programme (in-house)* in collaboration with Micro, Small and Medium Enterprise Development Institute, Jammu at M/s. United Phosphorus Ltd, Samba, Jammu on 25<sup>th</sup> February, 2011.
6. Sharma Suparn conducted a training session on "Business Ethics: Issues and Practices" in the *Two-day National Workshop* on Promotion of Ethical Values sponsored by UGC and conducted by Dyal Singh College, Karnal on 12<sup>th</sup> March, 2011.
7. Sharma Suparn conducted a training session on "Transactional Analysis Approach: An Instrument to Develop Motivated Organization" in a two-day workshop for Indian Forest Service Officers on *Creation of a Sustainable and Motivated Organization* held at Shri Mata Vaishno Devi University, from 17-18 February, 2011.
8. Sharma, Roop Lal paper presented in 3 -Day International conference on "Interest Free Institutional Mechanism (Banking, Finance & Insurance) For Promoting Investment " organised by Department of Business & Financial Studies, University of Kashmir, from 3rd -5th June, 2011.
9. Jena Pabitra Kumar presented paper on the topic, "Health Insurance Distribution for the Poor in Jammu Region: Issues, Challenges & Solutions", National Conference on Managing Corporate World-Vision 2020, Galaxy Global Group of Institutions, Ambala, Haryana, India, December 10-11, 2010.
10. Jena, Pabitra Kumar presented paper on the topic, "Management Education in India: An Agenda for Reform", National Conference on Quality Assurance in Professional Education: Challenges & Opportunities, Rourkela Institute of Management, Rourkela, Orissa, India, December 15, 2010.
11. Jena, Pabitra Kumar attended XIV Annual Conference of the Society of Operations Management: Positioning Operations Management for Global Excellence, National Institute of Industrial Engineering (NITIE), Mumbai from December 17-19, 2010.

### **Research Projects**

1. Suparn Sharma working on research project as a Principal investigator entitled, "Dimensions of Industrial Sickness in SMEs- A Study of Jammu & Kashmir State", of UGC, New Delhi of a total amount sanctioned Rs.1, 20000 for the duration of February, 2011 to July, 2012.
2. Suparn Sharma and Jyoti Sharma working on research project as Project Director entitled, "Technological Changes in Manufacturing Organizations: A Study of North-West States of India", of ICSSR, New Delhi of a total amount sanctioned Rs. 4.46 (approx) lakh for the duration of March 15, 2011 to 14 March, 2013.

### **Academic Achievements/Lectures/Talks Delivered By Faculty**

1. Sharma, Jyoti (2011) "Conducted two Sessions in inhouse MDP of Cadila Pharmaceutical, Jammu on Team Building on 9<sup>th</sup> January.
2. Sharma, Jyoti (2011) "Conducted two sessions in Inhouse MDP of United Phosphorous Ltd., Jammu on Time Management on 8<sup>th</sup> March.

# SCHOOL OF COMPUTER SCIENCE & ENGINEERING



## Name of the School

Computer Science & Engineering

## Courses/Degrees offered

- Bachelor of Technology in Computer Science & Engineering
- Master of Technology in Computer Science & Engineering

The school of CSE has started M.Tech(CSE) by admitting the first batch of M.Tech (CSE) students for the session 2011-2012. In order to maintain quality in creation and dissemination of knowledge, the students only with valid gate score and 1<sup>st</sup> Division in their qualifying exam were made eligible for admission.

## Ph.D Scholars

- Two Research Scholars Mr.Manoj Kumar and Mr.Sanjay Sharma, have been admitted for Ph.D programme of the School in January, 2011.
- One Research Scholar Ms.Sunanda Gupta has successfully passed her comprehensive exam for Ph.D in sept, 2010

## FACULTY OF SCHOOL

Sr. No.	Name	Qualifications
1.	Dr. M. L. Garg	PhD, M. Sc. Engg., B. E. (Hons)
2.	Dr. Ajay Koul	PhD, M. Tech., B. Tech.
3.	Dr. Neeraj Nehra	PhD, M. Tech.
4.	Mr. Manoj Kumar	PhD(pursuing), M. Tech., B. Tech.
5.	Ms. Sonika Gupta	PhD(pursuing), M.C.M., M.C.A.
6.	Ms. Sunanda	PhD(pursuing), M. C. A.
7.	Ms Sakshi Arora	PhD(pursuing), M. C. A.
8.	Mr. Naveen Gondhi	PhD(pursuing), M. Tech.
9.	Ms. Pooja Sharma	PhD(pursuing), M. B. A.(IT), B. E. (Comp. Sc.)
10.	Mr. Sanjay Kr. Sharma	PhD(pursuing),M. Tech. (Comm. & IT), B. Tech.
11.	Mr. Deo Prakash	PhD(pursuing), M. Tech., B. Tech.
12.	Mr. Anuj Mahajan	M. Tech., B. E.
13.	Ms. Monica	M. Tech., B. E.

## Research Publications

### (i) Papers in International Journals Published Outside India

- [1] Renu Vashist, **M.L. Garg**, "Rule Generation Based on Reduct and Core: A Rough Set Approach", International Journal of Computer Applications (IJCA), Sept, 2011 (Accepted).
- [2] Sunanda and **M.L. Garg** "Binary Trie Coding Scheme – An Intelligent Genetic Algorithm Avoiding Premature Convergence" International Journal of Computer Mathematics, 2011 (Communicated).

### (ii) Papers in Journals Published in India

- [1] Renu Vashist and **M.L. Garg**, "Rough Data Set Based Applications in Framing Decision Rules", International Journal of Computer Science and Communications, vol.1, no.2, Jul- Dec,2010, pp339 - 343,

### (iii) Papers in Conferences/Symposium & Seminars

- [1] **M.L. Garg**, "Key Note Speech for the Seminar on Artificial Intelligence", Priyadarshni Institute of Management & Science, Jammu, Dec, 2010.
- [2] **M.L. Garg**, "First Lecture on Rule Based Expert Systems", Refresher Course in Computer Science, University of Jammu, Jammu, Feb. 2011.
- [3] **Ajay Koul**, R. B. Patel, V. K. Bhat, A system level Security in MANETs, in proceedings of international conference on computer research and development, Shanghai, Vol 1 March 11- 13, china,2011.
- [4] **Ajay Koul**, Cyber Security, Police Academy, Udhampur. 2010

## Workshops /training/conferences attended:

- [1]. **Koul Ajay** attended a workshop on intelligence and Security Informatics at International School of Information Management University of Mysore, June 17-19, 2010.
- [2]. **Koul Ajay** has participated as invited expert in 4<sup>th</sup> Regional Workshop of MeLT Project, a nationally coordinated project funded by MHRD, GOI at IIT Roorkee, on 13<sup>th</sup> Feb, 2010.
- [3]. **Koul Ajay** attended AICTE/MHRD sponsored short term course on cloud computing at department of computer science and engineering, NIT Hamirpur (Himachal Pradesh) from December 28, 2009 - January 01, 2010.
- [4]. **Koul Ajay** was member of Local organizing committee in the international conference on Mitochondria Research and Medicine (ICMRM-2010) at SMVD University Katra Nov. 12-13, 2010.
- [5]. **Koul Ajay** organized One day workshop on Mobile E- Learning Terminals on 28<sup>th</sup> of August 2010 under MHRD sponsored NMEICT on sensitizing teachers about the importance of ICT based education and e- Learning technologies.
- [6]. **Koul Ajay** has attended one international conference on computer research and development at shanghai China from March 11-13, 2011.

- [7]. **Sharma Sanjay** a two days National workshop on Use and deployment of Video and Web courses developed under NPTEL held on June -July 2011 at IIT Delhi .
- [8]. **Kumar Manoj** attended AICTE Sponsored Staff Development Programme on WWIPS- 2010 from 5-16 July 2010 at SLIET, Longowal, Punjab.

### **PAPERS PRESENTED/ WORKSHOPS ATTENDED BY FACULTY**

- Koul Ajay, R. B. Patel, V. K. Bhatt, "A system layer security in mobile Ad hoc Networks", in Proceedings of International Conference on computer research and development (ICCRD 2011), shanghai, China, 11-13th March, 2011, Vol1, pp 72-76.
- Sakshi Arora, M. L. Garg, 'Clustering the data points to obtain optimum backbone for the bounded diameter minimum spanning tree', Proc. IEEE international conference on Computing Systems & Network Technology (CSNT-2011), SMVD University, Katra, June 3-5, 2011. (accepted for presentation).

### **OTHER ACADEMIC/ AWARENESS ACTIVITIES**

- One day Workshop was conducted on 28<sup>th</sup> August 2010 by Mr. Ajay Koul for the teachers and principals of neighbouring Government Higher secondary schools and colleges to provide them awareness about current trends in technology and importance of ICT in education. The workshop was sponsored by MHRD under project Mobile e Learning Terminals under National Mission on education through ICT.
- A Software Freedom Day was organized by the School in September, 2010 under the coordination of Dr. Ajay Koul, AP, SCSE and Mr. Naveen Gondhi, Lecturer, SCSE where in many students from various institutions of Jammu Region participated for different competitive events.

# SCHOOL OF ELECTRONICS AND COMMUNICATION ENGINEERING



## Courses Offered

B.Tech program in Electronics & Communication Engineering

## Faculty

S. No.	Name	Designation	Qualification.
1	Prof. R.K Abrol	Professor	PhD
2	Dr.Vipin Kakkar	Associate Professor	PhD
3	Mr.Sumeet Gupta	Assistant Professor	M. Tech
4	Mr.Amit Kumar	Assistant Professor	M. Tech
5	Mr.Kumand Ranjan Jha	Assistant Professor	M.E, AMIE
6	Mr.Shashi Bhushan Kotwal	Assistant Professor	M. Tech
7	Mr.Munish Sabraj	Assistant Professor	M. Tech
8	Mr.Ashish Suri	Assistant Professor	M. Tech
9	Mr.Amit Kant Pandit	Lecturer	B. Tech, DAC
10	Mr.Ejaz Aslam Lodhi	Lecturer	M. Tech
11	Mr. Anil Bhardwaj	Lecturer	M. Tech ; B.E.

### Conferences /Workshops/Seminars Organized

1. School organized second National Biennial short-term course on 'MATLAB Applications in Electronics, Electrical & Computer Engineering' from 27<sup>st</sup> Dec-31<sup>st</sup> Dec, 2010.
2. The school organized an IEEE conference CSNT-2011 held from June 3-5, 2011 at the University Campus

### Other Academic/Awareness Activities

1. Vipin Kakkar, External Examiner for PhD/MPhil thesis for PG Department of Physics & Electronics, University of Jammu, May 2011.
2. The school organized field visit for the 6<sup>th</sup> semester students of ECE to the "RADAR Station 256SU" Kunjwani on March 3, 2011.
3. Mr. Ashish Suri has initiated the "Techno Club" for student Activities in the School of E&CE.
4. Mr. Ashish Suri & Mr. Sumeet Gupta arranged an industrial visit of B.Tech student of School of E&CE to Intex Industries.
5. Mr. Sumeet Gupta coordinated and arranged for participation of students of B.Tech(E&CE) in the National Level SmartCar Contest organized by M/s Freescale Semiconductors in Bangalore.
6. Dr. Amit Kant Pandit has established the Student Chapter of IEEE in the University.
7. Mr. Sumeet Gupta organized weekly Soft-skill development program for the final year students of B.Tech(E&CE).



## **Publications of Faculty**

1. Kakkar, Vipin "Survey on Ultra Low Energy Applications", International Journal on Communications Antenna and Propagation (IRECAP). (Accepted for publication in June, 2011).
2. Sabraj, Manish, Vipin Kakkar, "Impact of Input Frequency and Modulator Order on the Performance of Sample Rate Converter", International Journal of Electronics and Communication Technology, Vol. 2 Issue 2 (Accepted for publication in June, 2011).
3. Jha, Kumud Ranjan & Ghanshyam Singh, "Analysis of narrow terahertz microstrip transmission line on multilayered substrate," Journal of Computational Electronics vol. 10, no. 1-2, pp. 186-194, June 2011.
4. Jha, Kumud Ranjan and Ghanshyam Singh, "Performance Analysis of Open-Loop Resonator Loaded Terahertz Microstrip Antenna" Microelectronics Journal, Apr. 2011.
5. Jha, Kumud Ranjan and Ghanshyam Singh, "Prediction of Highly Directivity Probe-fed Microstrip Antenna at Terahertz Frequency," International Journal of Numerical modeling: Electronic Network, Devices and Fields, (Accepted), May 2011.
6. Kakkar, Vipin "Performance Analysis of Nanometer CMOS for RF Applications", Journal of Circuits, Systems and Computers, World Scientific (Vol. 20 No. 6).
7. Sabraj, Manish Vipin Kakkar, "Performance Degradation of Sample Rate Converter with Output Frequency Variation" International Journal of Electronics and Communication Engineering Research and Development, Vol. 1, No. 2.
8. Bhardwaj, Anil, Sarin R K, Singh Sarabjeet, "Low Power High Gain CMOS LNA for WLAN and ISM Band Applications", MIT International Journal of Electronics and Communication Engineering Vol. 1, No. 1, Jan. 2011, pp. (1-4).
9. Sabraj, Manish, Vipin Kakkar, "Spectral Analysis of Sample Rate Converter" Signal Processing: An International Journal (SPIJ) part of On-line CSC journal, Vol. 4, Issue 4, Oct. 2010.
10. Garg, Amit Kumar et al, "Burst Dropping Policies in Optical Burst Switched Network", International Journal for Light and Electron Optics, Elsevier Science, Vol. 121, No. 15, pp. 1355-1362, October 2010.
11. Garg, Amit Kumar et al, "An Efficient Quality of Service (QoS) Scheme for All Optical Networks", International Journal of Optical Fibre Technology, Elsevier Science, In Press, Corrected Proof, Available online Nov. 2010.
12. Garg, Amit Kumar et al, "Effective Resource Utilization and QoS Oriented Integrated Scheme for Optical Burst Switching (OBS)", International Journal of Optical Communications (ISSN-number: 0173-4911), Vol.31, No.4, pp.218-223, Dec. 2010.
13. Garg, Amit Kumar et al, "An Efficient Routing Scheme to Reduce Packet Loss in All Optical Networks", International Journal of Microwaves, Optoelectronics and Electromagnetic Applications, Vol. 9, No. 2, pp.113-122, Dec. 2010.
14. Garg, Amit Kumar et al, "A Novel Deflection Routing Technique to Reduce End-to-end Delay in OBS Networks", International Journal of Optical Communications (ISSN-number: 0173-4911), Vol.31, No.4, pp.209-213, Dec. 2010.
15. Garg, Amit Kumar et al, "An Optimal Wavelength Reservation Technique for Optical Networks", International Journal of Technology and Applied Science, Vol.1, pp.1-3, Dec.2010.
16. Jha, K. R. and G. Singh, "Analysis of narrow terahertz microstrip transmission line on multilayered substrate," Journal of Computational Electronics (Springer) (On line 27

Oct. 2010).

17. Pandit, Amit et.al "A comparative study of the Edge based and Bi-level format for reduced complexity in mobile video compression" International journal of signal processing and Multimedia. Vol.3 No.2 Jun 2011.(accepted)
18. Lodhi, Ejaz "Analysis of Interdependence of Burst Assembly and Scheduling in Optical Networks" in IJEST Ref No: 05-10-122 accepted for publication.
19. Jha, K. R. and G. Singh, "Fabry-Perot Type Terahertz Dipole Antenna with two sidewalls with enhanced directivity," 35<sup>th</sup> IEEE conference on Infrared Millimeter and Terahertz, Rome, Italy, Sep. 05-08, 2010, pp. 1-2 (On line IEEE Xplore 28 Oct. 2010).
20. Pandit, Amit et. al. "Pruned-AZB for reduced complexity block matching in Video Compression", IEEE International Conference Computer Information Systems and Industrial Management Applications (CISIM), 2010, Cracow, Poland Publication Year: 2010, Page(s): 553 – 556.
21. Pandit, Amit et.al. "Bi-level frame for reduced complexity in video compression", 2010 IEEE International Conference on Computational Intelligence and Communication Systems, Bhopal.

### **Papers Presented/Workshop/Short term Courses Attended by Faculty**

1. Ranjan Jha Kumud, Asstt.Prof. Attended an International symposium on Microwave and Optical Technology, New Delhi, India on 16-19<sup>th</sup> Dec, 2010.
2. Suri Ashish attended two day workshop on "Research Issues in Modern VLSI Devices" at NIT Hamirpur (H.P) on 6-7<sup>th</sup> Nov, 2010.
3. Pandit, Amit attended, as participant and Program committee member, the 6th International Conference on Next Generation Web Services Practices (NWeSP-2010) November 23-25, 2010 - Gwalior, India.
4. Pandit, Amit attended, as participant and Program committee member, International Conference on Computational Intelligence and Communication Networks (CICN 2010), 26<sup>th</sup> Nov- 28<sup>th</sup> November 2010, RGPV, Bhopal.

### **Research Projects**

1. Dr. Vipan Kakkar has submitted a project entitled "Development of VLSI Research Center" for an amount of Rs.50.0 Lakh to MHRD.
2. Mr. Sumeet Gupta was part of team which was awarded a sponsored project by NMEICT MHRD entitled "Educational Resource planning Mission Project" for an amount of Rs.60 Lakh with Mr. Gupta as Co-PI.
3. Mr. Sumeet Gupta was awarded a sponsored project by Indian space Research Organization entitled "Design & Demonstration of Set of Algorithms for High Reliability Wireless Data Acquisition & Control" for an amount of Rs.13.27 Lak as PI with Mr. Shashi B Kotwal as Co-PI. This is the first project under the newly established UGC Sponsored Center for Embedded Instrumentation & Networked Controls.
4. Mr. Kumud Ranjan Jha has submitted a project to Indian space Research Organization entitled "Design and Analysis of Frequency Selective Surface at Ka/Ku Band for Reflection and S Band for Transmission" for an amount of Rs.15.96 Lakh with Dr. Ghanshayam Singh as PI.

### **Academic Achievements/Lectures/Talks Delivered By Faculty**

1. Garg, Amit Kumar was selected as Reviewer of International journal of Science-Asia [Science society of Thailand].
2. Garg, Amit Kumar was selected as Reviewer of International Journal of Computer

Applications [IJCA].

3. Garg, Amit Kumar was selected as Reviewer of International Journal of Technology Management and Innovation Santiago, Chile.
4. Garg, Amit Kumar was selected as Reviewer of CIIT International Journal of Networking and Communication Engineering.
5. Gupta, Sumeet was selected as reviewer of IEEE International Conference on Wireless Communication & Networks Dec 2010.
6. Gupta, Sumeet was selected as reviewer of 2010 International Conference on Communication Intelligence & Computer Networks, Bhopal.
7. Gupta, Sumeet was selected as reviewer of 2011 International Conference on Business, Engineering and Industrial Applications, Kuala Lumpur.
8. Kotwal, Shashi B. was selected as reviewer of 2010 International Conference on Communication Intelligence & Computer Networks, Bhopal.
9. Pandit, Amit Kant Reviewed Research papers as a member of Editorial board of International journal of Engineering and Technology, Singapore (ISSN-1793-8244).
10. Pandit, Amit Kant Reviewed Research paper for IEEE, 6th International Conference on Next Generation Web Services Practices (NWeSP-2010) November 23-25, 2010 - Gwalior, India. He was also the Member of Program committee, of IEEE, 6th International Conference on Next Generation Web Services Practices (NWeSP 2010), and Gwalior 26th Nov- 28<sup>th</sup> November 2010).
11. Pandit, Amit Kant Reviewed Research paper for IEEE, International Conference on Computational Intelligence and Communication Networks (CICN 2010, 26<sup>th</sup> Nov- 28<sup>th</sup> November 2010), RGPV, Bhopa. He was also the Member of Program Committee member for the same conference.
12. Kakkar, Vipin was invited as member of Editorial Board of International Journal of Computer Applications.
13. Kakkar, Vipin was invited as member of Editorial Board of VLSI Society of India.
14. Garg, Amit Kumar was selected as member of Editorial board of Integrated Publishing Association.
15. Garg, Amit Kumar was selected as member of Editorial board of Journal of Electrical and Electronics Engineering Research.
16. Pandit, Amit Kant was selected as Member of Editorial board of International journal of Engineering and Technology, Singapore (ISSN-1793-8244).
17. Garg, Amit Kumar delivered lecture at International Conference on Composites and Nano-composites (ICNC – 2011) January 7, 8 and 9, 2011, Kottayam, Kerala, India.
18. Gupta, Sumeet was invited as Keynote Speaker to deliver keynote Address at one Day Seminar on World Computer Literacy Day at Model Institute of Engineering & Technology, Jammu.
19. Gupta, Sumeet delivered a lecture as Resource person at Faculty Development program at M.B.S College of Engg. & Technology, Jammu.
20. Pandit, Amit Kant is a member of IEEE.
21. Gupta, Sumeet is a member of IEEE & Life-Member of IETE.
22. Pandit, Amit Kant is a Board Member (Non Executive) of "Walnut Technologies, Bangalore".
23. Pandit, Amit Kant is a member of "IACSIT" Singapore.

# SCHOOL OF INFRASTRUCTURE TECHNOLOGY & RESOURCE MANAGEMENT



## Courses Offered

1. M. Tech (Energy Management)
2. PhD (Energy Management)

## Faculty

S. No.	Name	Designation	Qualification
1	Mr. Rakesh Sharma	Assistant Professor	M. Tech
2	Mr. Sanjeev Anand	Lecturer	M. Tech, PhD Pursuing

## Other Academic/Awareness Activities

### 1. MEMBERSHIP OF PROFESSIONAL BODIES

Indian Society of Heating, Refrigeration & Air-conditioning Engineers (ISHRAE)  
Solar Energy Society of India (SESI)

### 2. TOWARDS CLEAN ENERGY CAMPUS

Shri Mata Vaishno Devi University, Katra has been working consistently towards development and implementation of clean and energy efficient technologies within the campus. Forging ahead in its commitment towards the environment, School of Infrastructure Technology and Resource Management at SMVDU has demonstrated a unique multipurpose solar hair dryer system which is energy efficient, low-cost and importantly adds zero-pollution to the environment. This system, fully designed and fabricated in-house at SMVDU, can be used for a variety of applications including room heating, water heating, cooking, crop & grain drying etc. The work has been carried out by a research team led by faculty members of SITRM and supported by research scholar Mr. Adarsh Pandey. The process of applying the system for building heating is underway. The utility of the above system for evaporative cooling is also being established.

### 1. NATIONAL FELLOWSHIP FOR Ph. D. STUDENT

One of our Ph. D. students namely, Mr. Adarsh Kumar Pandey has been awarded the National Renewable Energy Fellowship by Ministry of New & Renewable Energy (MNRE) Government of India, a reputed and very competitive one for a period of 3 years to do Ph. D. in the field of Renewable Energy.

## Publications of Faculty

1. Anand, S., Bansal, N.K., Park, S.R. and Tyagi, S.K. (2011) 'Comparative study of different insulating materials for reducing heat losses in steam pipes: a technical study', Int. J. of sustainable energy' iFirst, pp. 1-9
2. Anand, S. and Tyagi, S.K. (2011) 'Exergy analysis and experimental study of a

vapour compression refrigeration cycle' Int. J. of Thermal Analysis and calorimetry. (Accepted)

3. Tyagi VV, Kaushik SC, Pandey AK , Tyagi SK, Experimental study of the supercooling and pH behavior of a typical phase change material for thermal energy storage, IJPAP, 2011;49:117-25.
4. Tyagi, V. V. A. K. Pandey, G. Giridhar, S. Bandhopdhayay, S. R. Park and S. K. Tyagi, Comparative study based on exergy analysis of solar hair dryer using temporary thermal energy storage, International journal of Energy Research 2011.
5. Pandey, A. K., V. V. Tyagi, S.R. Park and S. K. Tyagi,, Comparative experimental study of solar cookers using exergy analysis, Journal of Thermal Analysis and Calorimetry, March 2011.
6. Tyagi, VV, Kaushik SC, Pandey AK , Tyagi SK, Thermal performance evaluation of a solar air heater with and without thermal energy storage: an experimental study, Journal of Thermal Analysis and Calorimetry, April 2011.

## **Research Projects**

1. School is working on a project entitled "Simulation and Performance evaluation of vapor-compression-absorption (VCA) hybrid refrigeration system for cooling and heating applications" funded by CSIR.



# SCHOOL OF INNOVATION & COMMUNITY DEVELOPMENT

The School shall focus on innovative and interdisciplinary training and capacity building skill enhancement and consultancy with the prime objective of contributing meaningfully to the development & economic upliftment of the surrounding populace in general and the region in particular by exposing them to the various job/self-employment opportunities available. It shall try to build the competence of young students of nearby local areas so as to build the required critical human resource pool for strengthening and expanding science and technology system in R&D base. The objective of the School is also to bring diverse expertise in different schools on a common platform & translate it for the general good.

All independent units like Entrepreneurship Development Cell, ERP Project, MeLT project, INSPIRE etc. shall come under the aegis of School of Innovation and Community Development

The School is not offering any fulltime programmes at present.

## Faculty

S. No.	Name	Designation	Qualification
1.	Dr. Sunil Kumar Wanchoo	Assistant Professor	Ph.D.

## Conferences/ Workshops/ Seminars Organised

1. One Day Workshop on MeLT held on August 28, 2010 under MeLT project Coordinated by Dr. Ajay Koul in which the participants are apprised about the present scenario of ICT education in Schools and Colleges and highlighted the importance of MeLTs especially in the remote areas of the Districts of Reasi, Udhampur and Jammu.
2. Two day National Seminar on "Aviation and Outer Space; Science, Economics and Law for Sustainable Development" was organized on April, 24-25, 2011.
3. DST Sponsored INSPIRE Science Camp was organized by the school from 28 May 2011 to 1st June 2011.
4. British Council (BC) since past three years and British Council has already setup Education UK Center in the University. The event was organized by the School of Innovation and Community Development on 15<sup>th</sup> March, 2011.
5. Third and Fourth Colloquium under SMVDU Colloquia have been organized under the banner of SMVDU Colloquium series after the scheme got the nod from the Executive Council of the University.

## Other Academic/ Awareness Activities

1. Wanchoo, S. K. visited Space Applications Centre, Ahmadabad and SAC, ISRO from 21/03/2011 to 22/03/2011 and interacted with Development and Educational Communication Unit (DECU), Remote Sensing Applications Area and various other facilities and discuss the specific areas and possibilities of collaboration.

### **Paper Presented/Workshops/Short term Courses Attended by Faculty**

1. Wanchoo, S. K. visited as a mentor and delivered a lecture during the 2nd INSPIRE Science Internship Camp held at University of Jammu held during 22 to 26th March, 2011
2. Wanchoo, S. K. visited as a mentor and delivered two lectures during the 3<sup>rd</sup> INSPIRE Science Internship Camp held at University of Jammu held during 21 to 25th November, 2010.
3. Wanchoo, S. K. Coordinator, INSPIRE, SMVDU also acted as a resource person at the third INSPIRE Science Internship Camp held in SMVDU from May 28 to June 1, 2011.
4. Wanchoo, S. K. visited Indian Academy of Sciences, Bangalore to attend the half yearly and annual meetings of the academy in Bangalore and Goa respectively during the year 2010-11.



# SCHOOL OF LANGUAGES AND LITERATURE



## Courses Offered

- 1) M.A. English
- 2) Business Communication in MBA
- 3) Communication Skills in B.Tech
- 4) Remedial Course for B. Tech students

## Faculty

S. No	Name	Designation	Qualification
1.	Dr. Vandhana Sharma	Assistant Professor	PhD
2.	Dr. Garima Gupta	Lecturer	PhD, NET
3.	Mr. Amitabh Vikram Dwivedi	Lecturer	M.A, NET
4.	Dr. Neeru Sharma	Lecturer	PhD

## Conferences/ Workshops/ Seminars Organised

1. One –Day Workshop on Theory Vis-à-vis Text. August 2011.
2. Student- Scholar Seminar on Interfacing Text and Theory: Issues in Research in English language and Literature. 26 May, 2011
3. A workshop was organized by the school on the area of translation conducted by Prof. G.K. Das in the month of March, 2011.

## Publications of Faculty

### Books

1. Sharma, Vandhana. Shastri, Ramnath. *Bawa Jitto*. Trans. Vandhana Sharma. Jammu: Saksham Books International, March 2011.

### Papers

1. Sharma, Vandhana, Shachi, Sood. "Post-colonial Dichotomy in Mahesh Dattani's *Final Solutions*". Contemporary Discourse: A Peer Reviewed International Journal. Volume-2, Issue-2, July-2011.
2. Sharma, Vandhana. "Transcreating India: The Nation In Rushdie's *Midnight's Children* and Arvind Adiga's *The White Tiger*". Atlantic Critical Review 10:2 April-June 2011.
3. Sharma, Vandhana. "Perceived as the Lowest of the Low: Quest for Identity in Mahesh Dattani's *Seven Steps Around the Fire*." English Studies in India, A Journal of Literature & Language, Vol. XIX, March 2011.
4. Sharma, Vandhana. "Dichotomy between Illusion and Reality: Emergence of Soyinkan Hero in Wole Soyinka's *A Dance of the Forests* and *Kongi's Harvest*". Illuminati: A Transnational Journal of Literature and Language. Volume I, 2010. 79-91.
5. Dwivedi, A. V., "Where Do We Put A Post-Independence Translation: An Inquiry to Translated Indian Literature", *Reflections on Post-Independence Indian English Fiction*, (ed.) Dr. Arvind M. Nawale , Anmol Publications Pvt. Ltd., New Delhi, 2011

6. Dwivedi, A. V., Linguistic Issues in Post-Independence Translation: An Inquiry to Translated Indian Literature in Conference Proceedings of 32<sup>nd</sup> All India Conference of Linguistics (21-23 December 2010) Linguistic Society of India.
7. Gupta, Garima, "Worlds within Words: A Study of Rushdie's Use of Allusions in *Midnight's Children*", *Indian Booker Prize Winners: A Critical Study of their works*, ed. Sunita Sinha, Atlantic Publishers and Distributors, New Delhi, Dec 2010.

### **Paper Presented/Workshops/Short term Courses Attended by Faculty**

1. Sharma, Vandhana Presented a paper entitled: "Syntagm of Creativity: Doxifying the Canon and the Anti Canon" in a National Seminar on Language, Literature: Issues in Teaching, Research and Pedagogy, Kashmir University. March 2011.
2. Sharma, Vandhana presented a paper entitled: "India: An Odyssey from *Midnight's Children* to *The White Tiger*" in a National Seminar on India in the Fiction of Indian Booker Prize Winners, VSSD PG College Kanpur, in November 2010.
3. Sharma, Neeru presented paper "*The Concept of Othering in the context of Culture and Identity in Jhumpa Lahiri's 'The Namesake'*" in the International Seminar organized by the School of Philosophy and Culture, SMVD University in March 2011.
4. Dwivedi, A. V., presented paper on "Haroti Proverbs: A socio-lingual study of Haroti Proverbs" in the International Seminar organized by the School of Philosophy and Culture, SMVD University in March 2011.
5. Dwivedi, A. V., Linguistic Issues in Post-Independence Translation: An Inquiry to Translated Indian Literature in Conference Proceedings of 32<sup>nd</sup> All India Conference of Linguistics (21-23 December 2010) University of Lucknow, Lucknow
6. Gupta, Garima presented paper 'Myth as Metalanguage': A Semiotic Analysis of Gender Myths in Media in the International Seminar organized by the School of Philosophy and Culture, SMVD University in March 2011.
7. Gupta, Garima presented paper "Under the Shade of Nature": An Ecocritical Study of William Wordsworth, Emily Dickinson and Rabindranath Tagore in the second biennial CLAI International Conference in March 2011.
8. Gupta, Garima presented paper "*Come Children lets watch Chhota Bheem*": Animation as site for the propagation of Gender Inequality in an International seminar organized by Women Study Center, University of Patiala in February 2011.

### **Academic Achievements/Lectures/Talks Delivered By Faculty**

1. Gupta, Garima delivered a talk entitled "Women Rights in J&K and the PRC Bill" at Govt. Boys PG College, Udhampur in January, 2011.
2. Resource Person in National Seminar on Human Rights and Women Rights organized by Kamla Nehru College for Women, Phagwara, Nov 2010 and delivered a talk on Female Foeticide: The Problem and the Solutions.

### **Awards**

1. Dr. Garima Gupta was given the prestigious Indira Gandhi Women Achiever Award in November 2010.

# SCHOOL OF MECHANICAL ENGINEERING



## Courses Offered

B. Tech (Mechanical)

M. Tech (Manufacturing and Automation)

## Faculty

S. No.	Name	Designation	Qualification
1	Mr. Balbir Singh	Asstt. Professor	M. Tech, Pursuing PhD
2	Mr. Rajesh Kumar Bhushan	Asstt. Professor	M.E, MBA, Pursuing PhD
3	Dr. Navdeep Malhotra	Asstt. Professor	PhD
4	Dr. Ankush Anand	Lecturer	PhD
5	Mr. Yatheshth Anand	Lecturer	M. Tech
6	Mr. Sanjay Mohan	Lecturer	B.E, M. Tech Pursuing
7	Mr. Rajinder Kumar Shahu	Lecturer	M.E
8	Mr. Manvinder Singh	Lecturer	M. Tech

### Other Academic/ Awareness Activities

1. Mr. Navdeep Malhotra has been awarded Doctorate Degree by NIT Kurukshetra in the M/o March, 2011.
2. Mr. Ankush Anand has been awarded Doctorate Degree by SMVD University in the M/o June, 2011.

### Paper Presented/Workshops/Short term Courses Attended by Faculty

1. Mr. Yatheshth Anand attended MATLAB course in Electronics & Communication Deptt. Of SMVDU from 27<sup>th</sup> Dec to 31<sup>st</sup> Dec 2010.

### Academic Achievements/Lectures/Talks Delivered By Faculty

1. Expert Lecture delivered by Dr. Mohd. Farooq Wani, Professor, Mechanical Engineering Department, National Institute of Technology, Srinagar titled "Tribology of Nano – Ceramics" on 22<sup>nd</sup> Nov. 2010 at 11:30 to 13:30 hrs.
2. Expert Lecture delivered by Prof. K.C. Gupta Principal NITS Jammu titled "Important of gating system in casting" on 11 Jan 2011.
3. Expert Lecture delivered by Prof. S.K. Saha, Professor IIT Delhi in the M/o May,2011 on below mentioned topics
  - a. "Robotics: A Robotics competition based Education in Engineering (ROC – BEE) concept"
  - b. Multibody Dynamics for Rural Applications (MuDRA): A Research Direction.

# SCHOOL OF MATHEMATICS



## Courses Offered

1. M.Sc. Mathematics
2. Ph.D. programme
3. Support provided to B.Tech. Courses

## Faculty

S. No	Name	Designation	Qualification
1	Dr. V. K. Bhat	Associate Professor	PhD
2	Dr. A. K. Das	Assistant Professor	PhD
3	Dr. Ajay Kumar Sharma	Lecturer	PhD
4	Dr. Kuldip Raj	Lecturer	PhD
5	Dr. Sadhana Tiwari	Lecturer	PhD
6	Dr. Sandeep Bhoughal	Lecturer	PhD
7	Dr. Rakesh Kumar	Lecturer	PhD

## Publications of Faculty

1. Bhat, V. K., Prime ideals of  $(*)$ -rings and their extensions, **Lobachevskii J. Math.**, Vol. 32(1) (2011), 102–106.
2. Bhat, V. K., On 2-primal Ore extensions over Noetherian  $(*)$ -rings, **Bul. Acad. Ştiinţe Repub. Mold. Mat.**, No. 1(65) (2011), 42-49.
3. Stevic, Stevo and Ajay K. Sharma, Composition operators from the space of cauchy transforms to Bloch and the little Bloch-type spaces on the unit disk, **Applied Mathematics and Computation**, 217(24):10187-10194 (2011).
4. Stevic, Stevo and Ajay K. Sharma and S. D. Sharma, *Weighted composition operators from weighted Bergman spaces to weighted type spaces of the upper half-plane*, **Abstract and applied analysis** (2011), Article ID 989625, 10 pages.
5. Stevic, Stevo and Ajay K. Sharma and Ambika Bhat, *Products of composition multiplication and differentiation between weighted Bergman spaces*, **Applied Mathematics and Computation**, 217 (2011), 8115-8125.
6. Raj, Kuldip and Sharma, Sunil K., Some sequence spaces in 2-normed spaces defined by Musielak Orlicz function, **Acta Universitatis Sapientiae Mathematica**, Vol. 3, no.1 (2011), 97-109.
7. Raj, Kuldip and Sharma, Sunil K., Some difference sequence spaces in a 2-normed spaces using ideal convergence and Musielak Orlicz function, **Far East Journal of Mathematical Sciences**, Vol.54, no.2 (2011), 149-161.
8. Kumar, Rakesh A catastrophic-cum-restorative queuing system with correlated batch arrivals and general service time distribution" **Pakistan Journal of Statistics and Operations Research**, Vol.8, No. 1 (2012) to appear.
9. Bhat, V. K. A note on completely prime ideals of Ore extensions, **Internat. J. Algebra Comput.**, Vol. 20(3) (2010), 457-463.

10. Bhat, V. K. Ore extensions over Weak  $\pi$ -rigid rings and  $(*)$ -rings, Eur. J. Pure Appl. Math., Vol. 3(4) (2010), 695-703.
11. Das, A. K. Simultaneous Generalizations of Regularity and Normality, Eur. J. Pure Appl. Math., Vol. 4(1) (2011), 34-41.
12. Kumar, Rakesh Transient solution of a catastrophic-cum-restorative M/M/2 queue with heterogeneous servers, Pakistan Journal of Statistics, Vol.26, No. 4 (2010) 609-613.
13. Bhat, V. K. Associated prime ideals of weak  $\pi$ -rigid rings and their extensions, Algebra Discrete Math., Vol.10(1) (2010), 8-17.
14. Stevic, Stevo and Ajay K. Sharma, *Weighted composition operators between Hardy and growth spaces of the upper half-plane*, Applied Mathematics and Computation, 217 (2011) 4928–4934.
15. Stevic, Stevo and Ajay K. Sharma, *Essential norm of composition operators between weighted Hardy spaces*, Applied Mathematics and Computation, 217 (2011) 6192–6197.
16. Stevic, Stevo and Ajay K. Sharma, *Weighted composition operators between growth spaces of the upper-half plane*, Util. Math, 84 (2011) 265–272.
17. Raj, Kuldeep, Sharma, Ajay K. and Sharma, Sunil K., *A sequence space defined by Musielak orlicz function*, International Journal of Pure and Applied Mathematics, Vol. 67 no. 4(2011), 475-484.
18. Raj, Kuldeep and Sharma, Sunil K. and Sharma, Ajay K., *Some new sequence spaces defined by sequence of modulus function in n-normed spaces*, International Journal of Mathematics, Science and Engineering, Appls., Vol.5 no. 2( 2011), 395-403.
19. Raj, Kuldeep and Sharma, Sunil K., *Generalized difference sequence spaces defined by Musielak Orlicz function*, International Journal of Mathematics, Science and Engineering, vol.5 no. 1 (2011), pp. 337-351.
20. Raj, Kuldeep and Sharma, Sunil K., *Some difference sequence spaces defined by modulus function*, Int. Journal of mathematical Archive -2(2),Feb.(2011),1-5.
21. Raj, Kuldeep Komal,B.S. and Khosla, Vinay, *Composition And Weighted Composition Operators on Sequence Spaces defined by modulus functions*, Int. Journal of mathematical Archive -2(1),Jan.(2011),217-221.
22. Kumar, Rakesh Transient solution of a catastrophic-cum-restorative M/M/2 queue with heterogeneous servers, Pakistan Journal of Statistics, Vol.26, No. 4 (2010) 609-613.

### **Paper Presented/Workshops/Short term Courses Attended by Faculty**

1. Kumar, Rakesh Operations Research in Energy Management-A Case of Shri Mata Vaishno Devi University, International conference on Applications of Operations Research in Rural and Urban Development, Madurai (December 15-17, 2010).
2. Kumar, Rakesh A Catastrophic-cum-Restorative Queuing Problem with Correlated Input and Impatient Customers , International conference on Applications of Operations Research in Rural and Urban Development, Madurai (December 15-17, 2010).

### **Research Projects**

1. V. K. Bhat (PI) associated prime ideals and minimal prime ideals of skew polynomial rings, UGC, New Delhi (2011-13).
2. Research project for three years "Transparency of skew polynomial rings over Noetherian rings" funded by Department of Atomic Energy, Mumbai.



# SCHOOL OF PHILOSOPHY & CULTURE



## Courses Offered

1. MA (Philosophy): Greek Philosophy, Indian Metaphysics, Moral Philosophy, Formal Logic, Indian Logic, Indian Ethics, Modern Western Philosophy, Indian Epistemology, Western Epistemology, Philosophy of Religion and Virtue Ethics: Classical
2. B. Tech: Introduction to Logic (core course), Introduction to Human Rights, Morality in Indian Tradition, Introduction to Philosophy of Science, Foundations of Cognitive Sciences, Introduction to Indian Philosophy
3. Certificate Course: Certificate Course in Ethical Value

## Faculty

S. No	Name	Designation	Qualification
1	Dr. V.K. Tripathi	Associate Professor	PhD
2	Dr. A.K. Tewari	Assistant Professor	PhD
3	Mr. S.S. Sharma	Lecturer	PhD (thesis submitted)

## Conferences/ Workshops/ Seminars Organised:

1. International Seminar on "Culture, Myth and Knowledge", 25-27 February, 2011, Sponsored by Indian Council of Philosophical Research, New Delhi, and Indian Council of Cultural Relations, New Delhi.
2. Special Lecture Series of 3 Lectures on "Nature, Importance and Relevance of Philosophy", from 28<sup>th</sup> Feb. – 1<sup>st</sup> March, 2011, by Prof. Srinivas Rao, National Fellow, ICPR, New Delhi.

## Other Academic/ Awareness Activities

1. Celebration of World Philosophy Day on 27<sup>th</sup> Nov. 2010. A one day seminar on the theme "The Need of Philosophy as a core subject in School and Higher Education" was organized to popularize 'Philosophy' discipline in the state of Jammu & Kashmir.

## Publications of Faculty

1. Tripathi, Varun Kumar, Book Review, "Kya Hai Kya Nahi Hai" by Mukund Lath, Unmeelana, Darshan Pratishthan jaipur, pp. 111-122.
2. Tewari, Anil Kumar (2010), "Citta: Substance versus Flux", *Padma Parag* (Lotus Nectar): A Research Journal of PG Department of Sanskrit, University of Kashmir, pp: 162 – 183.
3. Tewari, Anil Kumar (2011), "A Reflective Overview of *God and Human Cloning*", *Vigyan, Darshan and Dr. Rai*, Delhi: New Bharti Publication, pp: 128 – 139.
4. Sharma, Sumanta Sarathi (2011), "Interpreting Squares of Opposition with the help of Diagrams", *New Perspective on the Square of Opposition*, Bern: Peter Lang Publishing House (in press).

### **Paper Presented/Workshops/Short term Courses Attended by Faculty**

1. Varun Kumar Tripathi participated and presented a paper on "Fascinating Symbols, Seeing Lost: A Critique of Culture" in International Seminar on "Culture, Myth and Knowledge" organized by the School of Philosophy and Culture, SMVDU from 25<sup>th</sup> – 27<sup>th</sup> Feb. 2011.
2. Anil Kumar Tewari participated in International Seminar on "Culture, Myth and Knowledge" organized by the School of Philosophy and Culture, SMVDU from 25<sup>th</sup> – 27<sup>th</sup> Feb. 2011, and attended a workshop on "Indian Epistemology and Logic" at IIAS, Shimla from May 02 – 13, 2011.
3. Sumanta Sarathi Sharma participated in International Seminar on "Culture, Myth and Knowledge" organized by the School of Philosophy and Culture, SMVDU from 25<sup>th</sup> – 27<sup>th</sup> Feb. 2011.

### **Research Projects**

1. UGC minor project on "Reconstruction of the Buddhist Doctrines in the *Nyayakusumanjali* and the *Atmatattvaviveka*" granted to Dr. Anil Kumar Tewari for the period of Feb. 2011 – July 2012.
2. Varun Kumar Tripathi got selected in March 2011 for Associateship of Indian Institute of Advanced Study, Shimla for his Project on "Constructing a Common Schema for Presentation of Indian Ethics".
3. Anil Kumar Tewari got sanctioned in Feb. 2011 a Minor Project of UGC on "A Critical Study of Udayanacarya's Reconstruction of Buddhist Doctrines in the *Nyayakusumanjali* and *Atmatattvaviveka*".

# SCHOOL OF PHYSICS



## Course offered

1. M.Sc. Physics

## Faculty

S.No.	Name of the Faculty	Designation	Qualification
1.	Dr. Yugal Khajuria	Assistant Prof.	Ph.D
2.	Dr. S.K. Wanchoo	Assistant Prof.	Ph.D
3.	Dr. Jitendra Sharma		Ph. D
4.	Dr. Kamini		Ph.D
5.	Dr. Vivek Kr. Singh		Ph.D
6.	Dr. Vinay Kr.		Ph.D
7.	Dr. Ram Prakash		Ph.D
8.	Mr. Pankaj Biswas		M.Sc. NET.

## Other Academic/Awareness Activities

1. A grant of Rs. 15 Lakhs was obtained by Dr. S. K. Wanchoo, Assistant professor, SOP for establishment of Electronics Specialization Lab for the students of M.Sc. Physics under the special status scheme for the state of J&K coordinated by Prof. V Verma in case of SMVDU. All the equipment has already been procured and currently the furniture is under fabrication by the Engineering section of SMVDU.

## Publications of Faculty

1. Shreyas S. Pitale, Vinay Kumar, I. M. Nagpure, O. M. Ntwaeaborwa, E. Coetsee, H. C. Swart, Cathodoluminescent properties and surface characterization of bluish-white  $\text{LiAl}_5\text{O}_8:\text{Tb}$  phosphor J. Appl. Phy. 109 (2011) 013105.
2. Shreyas S. Pitale, Vinay Kumar, I.M. Nagpure, O.M. Ntwaeaborwa, H.C. Swart, Luminescence characterization and electron beam induced chemical changes on the surface of  $\text{ZnAl}_2\text{O}_4:\text{Mn}$  nanocrystalline phosphor, Appl. Sur. Sci. 257 (2011) 3298–3306.
3. I.M. Nagpure, S.J. Dhoble, Manoj Mohapatra, Vinay Kumar, Shreyas S. Pitale, O.M. Ntwaeaborwa, S.V. Godbole, H.C. Swart, Dependence of  $\text{Eu}^{3+}$  luminescence dynamics on the structure of the combustion synthesized  $\text{Sr}_5(\text{PO}_4)_3\text{F}$  host, J. Alloys Comp. 509 (2011) 2544–2551.
4. Shreyas S. Pitale, Vinay Kumar, Indrajit Nagpure, O.M. Ntwaeaborwa, H.C. Swart, Luminescence investigations on  $\text{LiAl}_5\text{O}_8:\text{Tb}^{3+}$  nanocrystalline phosphors *Curr. Appl. Phy.*, 11(3) 2011, 341-345.
5. Shreyas S. Pitale, I.M. Nagpure, Vinay Kumar, O.M. Ntwaeaborwa, J.J. Terblans, H.C.

Swart Investigations on the low voltage cathodoluminescence stability and surface chemical behaviour using Auger and X-ray photoelectron spectroscopy on  $\text{LiSrBO}_3\text{:Sm}^{3+}$  phosphor *Mat. Res. Bull.* 46 (7) 2011, 987-994.

6. I.M. Nagpure, Shreyas S. Pitale, K.G. Tshabalala, Vinay Kumar, O.M. Ntwaeaborwa, J.J. Terblans, H.C. Swart. Luminescence response and CL degradation of combustion synthesized spherical  $\text{SiO}_2\text{:Ce}$  nanophosphor *Materials Research Bulletin*, Available online 1 September 2011 [doi:10.1016/j.materresbull.2011.08.051](https://doi.org/10.1016/j.materresbull.2011.08.051)

### **Papers Presented/workshop/short term courses attended by faculty**

1. Presented a research paper entitled "Combustion synthesis of long after glow  $\text{SrAl}_2\text{O}_4\text{:Eu,Dy}$  nanophosphors" in Professor Ram Chand Paul International Conference held on 11-12 February, 2011 at Department of Chemistry, Panjab University, Chandigarh.
2. Presented a paper entitled "Combustion synthesis of long after glow nanophosphors and their potential application in Latent Fingerprint detection" in International Conference on Advanced and Nano Materials held on 22-26 February, 2011 at Department of Physics, Panjab University, Chandigarh.
3. Presented a paper entitled "Synthesis & Characterization of nano Phosphor for Forensic Application in Fingerprint detection" in 5<sup>th</sup> Chandigarh Science Congress (CHASCON 2011) focal theme "Building gateways to sustainable green communities" in the section of "Environment, Public health & Forensic Science" on 26-28 February, 2011 at Panjab University Chandigarh.

### **Research projects**

1. CSIR Funded project entitled "Electron Impact Single Ionization Studies of Atoms" Principal Investigator: Dr. Yugal Khajuria
2. UGC- IUAC (Inter University Accelerator Centre), New Delhi. Supported research project entitled "Effect of swift heavy ion irradiation on alkali alkaline earth based oxide nanophosphors: Luminescence and related studies". *Principal Investigator: Dr Vinay Kumar*
3. Department of Science and Technology (DST, Govt of India) SERC Fast Track Scheme under my research proposal "Development of inorganic nanophosphors: Luminescence and related studies". *Principal Investigator: Dr Vinay Kumar*

### **Academic Achievements/Lectures/Talks Delivered by Faculty**

1. Dr. S. K. Wanchoo, Director I/c SICD was invited as a mentor and delivered a lecture during the 2nd INSPIRE Science Internship Camp held at University of Jammu held during 22 to 26th March, 2011. The lecture was attended by over 250 students from the entire state. Besides the lecture VSAT Enabled Mobile E-Learning Terminals Vans were also demonstrated to the attendees over a period of two days.
2. Dr. S. K. Wanchoo, Director I/c SICD was invited as a mentor and delivered two lectures during the 3<sup>rd</sup> INSPIRE Science Internship Camp held at University of Jammu held during 21 to 25th November, 2010. The lecture was attended by over 250 students from the Kashmir Division. Besides the lecture VSAT Enabled Mobile E-Learning Terminals Vans were also demonstrated to the attendees over a period of two days.

## Dean of Students

For a fully Residential University, where the students are not allowed to leave the campus without the written permission of the Head of their School and Warden of their hostel, the office of Dean of Students has a very important and responsible role to play. "All work and no play" can make any student bored and dull. Hence it is the responsibility of the office of Dean of Students, utilize their spare time with more creative and entertaining activities, which can nurture talents and optimize their potentials and create a niche for themselves with overall development of their individual personality.

### Administrative Setup

The following administrative setup has been created:



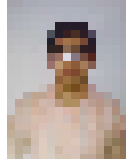
1. Dean of Students
2. Associate Deans of Students
3. Wardens

### Student Activities

#### Debate Club

- The Club organized a discussion on the topic "Is Gandhi Dead?" in view of Mahatma Gandhi's famous work Hind Swaraj or Indian Home Rule on the occasion of Martyr's Day, on January 30, 2011.
- Debate competition organized by the Club on the topic "ISRAEL and PALESTINE: The Mother of conflicts" Is America playing a negative role? on March 10, 2011.
- The Club is associated with the participation of SMVDU in VIRASAT-E-RIYASAT 2011.
- The students have participated in Virasat-e-Riyasat--Three Day Cultural Festival of Jammu University organized from 24th - 26th Feb. 2011 at Gen. Jorawar Singh Auditorium in the University of Jammu.
- The team won third prize in the Costume Show and Consolation prize in Folk Song. The team was led by Vipul Jain, Student Secretary and Suberta Manhas, Cultural Secretary.
- The following students participated in a two day Techno-Cultural Festival - SAMMILAN 2K11 of Model Institute of Engineering and Technology, Jammu organized from 16-17 April 2011. They have won the prizes and positions mentioned against their names:



Name	Prizes
 Ankush Gupta 2008EME 21	Paper presentation— 2 <sup>nd</sup> prize Group discussion – 2 <sup>nd</sup> prize Debate-3 <sup>rd</sup> prize Cross words -2 <sup>nd</sup> prize Tell a story-consolation prize
 Vishal Kher 2008EME15	War of words-1 <sup>st</sup> prize Tell a story-consolation prize
 Aakash Malhotra 2008EME31	TELL A STORY-3 <sup>RD</sup> PRIZE

- Twelve students participated in Bani Thani 2011-the 2nd International Cultural Festival of Maharshi Dayananda Saraswati University, Ajmer organized from 29th - 30th January 2011.
- The following 4 students were successful in winning prizes in different competitive events mentioned against their names:
- Rydma 2nd Prize in International Dance (solo)
- Simranpreet Kaur 2nd Prize in Debate (English)
- Sourabh Gupta 2nd Prize in Poster Making
- Subby Rani 3rd Prize in Rangoli

The team was led by Mr. Sucha Singh, Sports Coach, SMVDU.

The following students participated in Essay Writing and Debate competition held from 06<sup>th</sup> - 09<sup>th</sup> Jan. 2011 at IGICM, Lucknow:

1. Gaggandeep Raina (2008 EME 26)
2. Aman Kumar Jha (2009 EEC 20)

It is noticeable that Aman Kumar Jha bagged 1<sup>st</sup> Prize of Rs. 1000/- and Sudhir Kumar got 2<sup>nd</sup> Prize of Rs. 800/- at University level debate competition held in Sep. 2010 at SMVDU.

The Club organized three debate competitions and one symposium. On 12<sup>th</sup> August, celebrated as International Youth Day, a debate on the theme "The Communication Gap among the Youth seems wider than that created by the Generation Gap" was organized. Taha Mughal (B. Arch. 2<sup>nd</sup> year), Bhupinder Singh (ECS 4<sup>th</sup> year) and Ankush Gupta (EME 3<sup>rd</sup> year) secured 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> position respectively. In collaboration with the Gandhi Global Family, a symposium was organized on the theme "Gandhi's Two Weapons – Truth & Non-violence" on 31<sup>st</sup> August. Taha Mughal secured 1<sup>st</sup> position in the symposium and he was declared "Gandhi Doot" of SMVDU by the Family. Ankush Gupta got 2<sup>nd</sup> position and Vani Awasthi (MA English 1<sup>st</sup> year) got 3<sup>rd</sup> position. Dharmendra Kumar (EEC 2<sup>nd</sup> year) was declared the best speaker in



Hindi medium. The Club in association with the Indian Association of Parliamentarians on Population and Development organized a university level debate competition on the theme "The present trend of the population growth in India is not an impediment for sustainable development" on 22<sup>nd</sup> September. Among 21 participants, Sudhir Kumar (MBE 2<sup>nd</sup> year), Gaggandeep Raina (EME 3<sup>rd</sup> year), Simranpreet Kaur and Quleen Kaur (both MA English 2<sup>nd</sup> year) declared 1<sup>st</sup> (Rs. 3000/-), 2<sup>nd</sup> (Rs. 2000), 3<sup>rd</sup> (Rs. 1500/-) and consolation (Rs. 1000/-) prize winners. The first two students participated in the national level debate in New Delhi and received high appreciation for their speeches.

The Club in association with the National Council for Cooperative Training organized another university level debate competition on the theme "Cooperatives can bridge the Urban-Rural Divide in India" on 23<sup>rd</sup> October. In this competition, Aman Kumar Jha (EEC 2<sup>nd</sup> year), Sudhir Kumar and Deepak Kumar (EEC 4<sup>th</sup> year) were declared 1<sup>st</sup> (Rs. 1000/-), 2<sup>nd</sup> (Rs. 800/-) and 3<sup>rd</sup> (Rs. 600/-) prize winners. These three students along with Gaggandeep Raina will be participating in the national level debate competition scheduled to be organized in Lucknow from 6 – 9<sup>th</sup> January 2011.

### **Quiz Club**

Quiz Club organized a Science quiz on February 28, 2011. The competition was won by team of Aakash Malhotra (2008EME31) and Vishal Kher (2008EME15).

Two teams comprising of 2 students each Tushar Kaushik (2008EEC20), Manish

Maheshwari (2007ECS40), Saloni Gautam (2008EEC22) and Himanshu Khajuria (2008EME28) participated in the TATA CRUCIBLE QUIZ held on March 12, 2011 at Chandigarh. A total of 125 teams from various renowned institutions from across the North-India Region including Thapar, PEC and Punjab University had participated in this event. The students were fascinated by the wide variety of questions along with the grand scale of the competition and were enthusiastic about the experience gained and were geared up for performing better next year.

The Club also organized six quiz competitions. On 22<sup>nd</sup> August and 11<sup>th</sup> September, there were two quizzes on "Current Affairs". On 26<sup>th</sup> September, a quiz was organized on "Culture". On 3<sup>rd</sup> October, the quiz was based on "Movies and TV Shows". "Nature and Environment" was the topic for the quiz on 17<sup>th</sup> October. The last quiz for this semester was organized on 18<sup>th</sup> November on the topic "Modern Indian History and Freedom Struggle".

### **Dramatics Club**

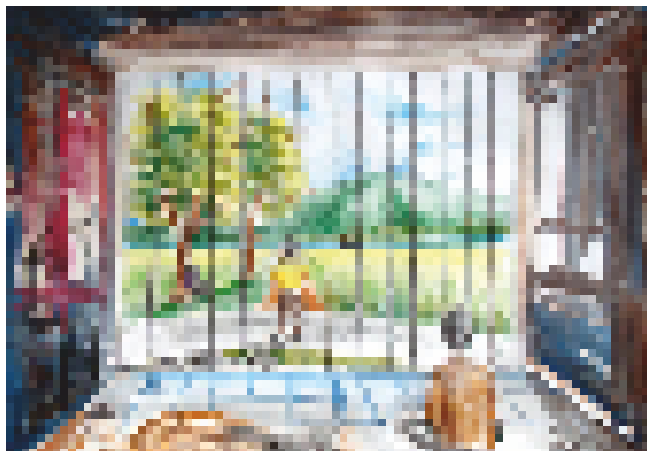
The Club conducted three days workshop on 20<sup>th</sup> September, 18<sup>th</sup> October and 20<sup>th</sup> November regarding dialogue delivery, introduction of technical terms, method to create appropriate light effect, importance of Hindi theatre and practice based on the instruction. Deepak Kumar (2007 EEC 51) was the team leader for the workshop.

### **Hindi Club**

A Hindi Essay competition on "The Role of Women in the Development of Modern Indian Society" was organized by the Hindi Club on the occasion of International Women Day on 8<sup>th</sup> March 2011. Sudhir Kumar (2009MBE41), Prashant Kumar (2008EEC17) and Ankur Agrawal (2007ECS50) bagged first, second and third prize respectively.

## **Film and Photography Club**

The following winning entries in the photography competition held during Resurgence '11



The Club organized two workshops on the method of film making and photography in October and November. A movie was also screened.

## **NSS Cell**

SMVDU NSS cell organized an interactive session on Legal Awareness on 31<sup>st</sup> August, 2010. Mr. Kamlesh Pandit, Sub-Judge, Katra, and other officials from Katra Judiciary addressed the NSS volunteers and other interested students on a variety of legal issues like special rights of women, legal status of ragging in academic institutions, right to education, right to dignified life etc. Around 50 students took part in the session and 35 students registered their names for the creation of para-legal-volunteer-group on campus. The group will work to bring about legal awareness about different issues.

## **Nature Club**

The Club has formed a googlegroup for quick access to its members. It has also been decided to launch a campaign to reduce plastic consumption in the campus. An awareness camp was held on 3<sup>rd</sup> October for sensitizing minds of the youth towards Nature.

## **Literary Club**

The Club convened a meeting on 22<sup>nd</sup> October and decided to create a literary weblog. The necessity of a literary E-Magazine was also felt. The core team has been given responsibility to work out a plan for the coming semester to organize literary quiz, essay competitions etc.

## **Sports Club**

A "KITE FLYING COMPETITION" was organized on the occasion of "Baisakhi" on April 14, 2011 in the Sports Ground. It was won by Manish Maheshwari (2007ECS40) and his team.

The department of Sports organized various Intra-University tournaments. In this semester, Volleyball, Cricket, Football and Basketball competitions were held from September. This time, the department received a lot of entries and enthusiasm especially from the first year students. The first year teams (Blue Mavericks and Deadly Shadows) were adjudged winners in the football and basketball tournaments respectively. However, a clinical performance by a

team of mixed students (Trikuta Warriors) bagged the volleyball tournament. The cricket tournament still continues as the number of participating team stands at a record 20. The tournament is expected to conclude before the Republic Day celebrations.

### **Management Festival TATVA-10**

Two days Management Festival TATVA'10 was celebrated at the University on November 2-3, 2010. The fest included the events like Launch a product, Ad-Mad show, Smart Sim, Business Quiz, Case Study, Summer Training Project Presentation, etc. More than 200 students from different Business schools across J&K participated in these events. The Vice Chancellor, Prof.R.N.K Bamezai, was chief Guest on



the valedictory function and Mr. Ashok Mehta, Chief Operating Officer, J&K Bank was Guest of honor . Among other dignitaries present on the occasion were Mr. Puneet Banga, IFF India (P) Ltd. and Mr. Bhupesh Sharma. Prof. D Mukhopadhyay, Dean, College of Management praised the level of enthusiasm shown by the participating teams during the two days fest. College of Management of SMVDU stood as the overall winner of the Management Fest followed by The Business School; University of Jammu. In the end of the Fest, the torch was handed over by the organizing committee of TATVA'10 to the first year Students College of Management and laid down the foundation of TATVA'11.

### **Technical Festival TITIKSHA – 2010**

"Titiksha", the Annual Technical Festival of the University was held in the University on October 8<sup>th</sup>, 2010. The festival was inaugurated at the Matrika Auditorium with Prof. R.N.K Bamezai, the Vice Chancellor of University starting the 'Robotic Car', a mascot of "Titiksha", symbolizing perpetual technovation of SMVDU students. In his inaugural address, Prof.



Bamezai appreciated the concept of "Titiksha" and shared his vision to make it a Technical Festival with global participation. Welcoming the Chief Guest, Prof. R.S Misra, Dean of Students highlighted the genesis of Titiksha from a small event to a technical festival of immense magnitude with participation from other Colleges and Universities of J&K. The coordinator of the programme, Ms. Sakshi Arora and other students made a presentation on

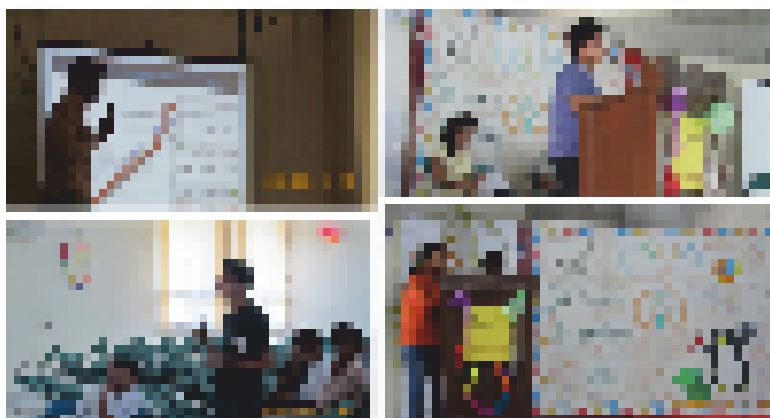
what "Titiksha" symbolizes highlighting the potential of each of the engineering branch of the School. The inaugural; function was followed by a host of interesting and innovative competitions and sessions like: Battle of C/C++, Archie Exhibition, Linux Troubleshooting, Roba mania, AutoCAD, Techno Zone. Etc.

### **Freshers' Day Concordance 2010**

Concordance 2010, an official meet of the first year students, was organized on September 25, 2010 in the University. The function began with a welcome address and formal introduction of "Concordance" by the Student Secretary, Mr. Vipul Jain followed by various solo and group performances including dance, music and songs interspersed with introductions of the freshers. The freshers along with their immediate seniors also performed a skit on the theme "Nasha" in which the issue of drug abuse was highlighted. Around 500 students, members of faculty, staff and their families were the witness of the cultural evening. Hon'ble Vice Chancellor Prof. R.N.K. Bamezai graced the occasion with his presence and wished the freshers a fruitful life in SMVDU and a bright future ahead.

### **Software Freedom Day- 2010**

The OSUM SMVDU club joined the worldwide celebration of Free and Open Source Software (FOSS) by celebrating Software Freedom Day-2010 on September 18, 2010. Software Freedom Day (SFD) Software Freedom is an event with thousands of teams from all around the world running local events to help their communities understand software freedom. The OSUM SMVDU club was one such team. The scintillating part of the event was the



surprise visit by the Vice Chancellor, Prof. R.N.K. Bamezai who acquainted the students with his thoughtful and knowledgeable words. He exposed the audience with the practicality of open source and its practical uses. Prizes, certificates and goodies were distributed by the Vice Chancellor and Dean College of Engineering, Prof. M. L. Garg to the winners of the competitive events.

### **Marketing Club Organises 'BOLOBANAO' Competition**

MarketINE the Marketing Club of SMVDU organized a 'BOLOBANAO' competition comprising of Debate and a Collage Making competition in the campus on 20 September, 2010. The topic of the contests was "Common Wealth Games- A right step towards promoting brand INDIA". Five groups of students from College of Management participated in the event. Mukul Raina (MBA Semester III, Group I) and Archana Gupta (MBA (BE) Semester I, Group II) were the winners for the motion and against the motion of the debate competition respectively. The collage making competition was won by Monika Sambyal (MBA Semester III, Group I), who described the balance of dark and bright aspects of the common wealth games in India.

### **B.Tech Students Selected for Summer Internship at Primer Organizations**

Two students of B.Tech (Computer Science & Engineering) who have just completed the sixth

semester have been selected for Summer Internship in Indian Institute of Sciences Bangalore. IISc Bangalore is one of the best institutions of higher learning in the country and the two students were looking forward to work there for a period of two months. Similarly two students of B.Tech program were selected for Summer Internship at TATA Consultancy Services for a period of two months. Students from SMVDU are regularly placed with top notch Institutions of Higher Learning, Research and the Industry for summer internship to ensure that they get maximum exposure in their chosen fields of work.

### **Biotechnology students complete industrial training at Prathista Industries Ltd., Hyderabad**



*Students batches visit was sponsored by  
M/s Prathista Ind, Hyderabad*



*Students with Sr. Managers of M/s Prathista Ind*

An Industrial Visit was organized at Prathistha Industries Limited (PIL), Hyderabad for the final year students of M. Sc. (Biotechnology) & B. Tech. (Industrial Biotechnology) in three batches for 15 days each from 12th March-26th April 2011. The above visit was sponsored by M/s. Prathistha Industries Ltd., Hyderabad. The visit was organized by the joint efforts of Prof. R.N.K. Bamezai, Hon'ble Vice Chancellor, SMVDU; Prof. V. Verma, Dean Sciences, SMVDU; and Mr. K.V.S.S. Sai Ram, MD & CEO, PIL, Hyderabad under the auspices of the MOU between SMVDU, Katra & PIL, Hyderabad. Faculty members Dr. Sharada M. Potukuchi, Assistant Professor, Mr. Parvez S. Slathia, Lecturer and Mr. Arvind K. Yadav, Lecturer, School of Biotechnology were deputed to accompany the students and help them in their training programme. During the course of the visit the students were initially exposed to the overall working at different sections of the Industry, such as, Research & Development, Quality Control, Pilot Plant, Production Unit, Agri-Biotech Products Section, Water Treatment Unit, Administration, at PIL, Choutuppal and Product Development & Marketing, at PIL, Alwal. The students were divided into groups of 3-4 students and minor projects were allotted to them as a part of their training programme under the supervision of Senior Managers of Quality Control & Research-Development.

### **Students excel at NCCT Sponsored Debate Competition**

Under a Scheme of the National Council for Cooperative Training, (National Cooperative Union of India), New Delhi, the Debate Club of SMVDU organized an Inter-Collegiate Debating Competition on 23-10-2010. Prescribed subject for the debate was "Cooperatives can bridge the Urban-Rural Divide in India". A total of 12 students from various faculties participated in the competition.

## Resurgence- 2011

Resurgence- 2011, the annual cultural and sports festival of the university was inaugurated in the Matrika auditorium amidst enthusiasm and euphoria on April 8, 2011. The three-day Youth festival from 8<sup>th</sup> -10<sup>th</sup> April, 2011 is a conglomeration of literary, cultural and sports events. The intra-university literary and sports events commenced on 31<sup>st</sup> March, 2011 in the university and the winning teams participated in the Inter-University events held on 9<sup>th</sup> April and 10<sup>th</sup> April, 2011. The cultural events commenced with a sparkling performance of a play 'Ek Tha Gadha' by Rangyug. Spectacular events in the festival are

Mea Culpa, Bread-Butter-Jam, Symphony, Mock-it-up, and Youth Parliament; Pump it up and Halla Bol Street Play. Declaring the festival open, the Vice Chancellor, Prof. R.N.K Bamezai, the chief guest on the occasion, greeted the faculty, staff and students at the juncture of festivities and celebrations in SMVDU and said that the annual Youth festival is a much required breather for everyone as it falls after the minor-I and minor-II and is followed by major examinations. In his inaugural address, Prof. Bamezai highlighted the significance of such events which provide a platform for nurturing team spirit and leadership qualities amongst students in university life thereby producing "highly skillful trained manpower".



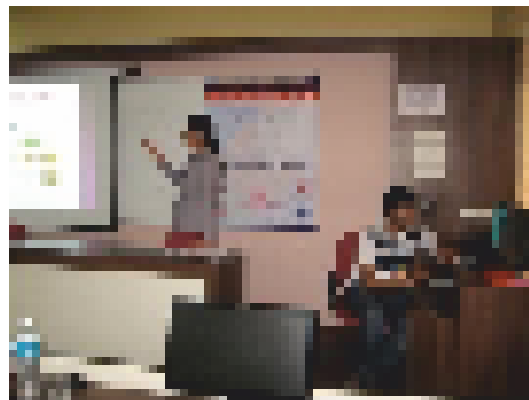


## **Student Teams participates in TATA CRUCIBLE QUIZ (Chandigarh region)**

Two teams comprising of 2 students each Tushar Kaushik (2008EEC20), Manish Maheshwari (2007ECS40), Saloni Gautam (2008EEC22) and Himanshu Khajuria (2008EME28) participated in the recently held TATA CRUCIBLE QUIZ (Chandigarh round). A total of 125 teams from various renowned institutions from across the North-India Region including Thapar, PEC and Punjab University had participated in this event. The students were fascinated by the wide variety of questions along with the grand scale of the competition and were enthusiastic about the experience gained and were geared up for performing better next year.

## **B.Tech(E&CE) Students Present Paper at INDIACom-2011**

Ms. Surabhi Mengi and Mr. Govind Arora, from B.Tech(ECE)-6th Semester, School of Electronics and Communication Engineering, SMVDU, presented a research paper titled "An Ethnic Design Of Line Follower Robot" at 2 Days National Conference (INDIACom-2011) organized by Bharati Vidyapeeth's Institute of Computer Application and Management, New Delhi, held on 10th & 11th March 2011. The theme of conference was "Computing For Nation Development". The paper was appreciated by the dignitaries and Academicians of Repute such as Prof. P.B. Sharma (VC, DTU), Mr. R.K. Gupta (President, IETE), Dr. V.R. Singh,



Prof. K. Subramanian, Mr. Daman D. Sood (IEEE, Delhi Section). The full paper was published in the Proceedings of the 5th National Conference on Computing for Nation Development having ISSN 0973-7529 and ISBN 978-93-80544-00-7. The paper talks about the design improvements and control algorithms for a line based path follower robot. In this designed model, the speed of the Robotic Car is automatically controlled by the path it follows.

## **Researchers from Hash Biotech Lab interact with Students**

Research Scientists of Hash Biotech Labs, Chandigarh; Dr Anuradha Tiwari, Dr Rajesh Pandey and Mr. Gourav visited Shri Mata Vaishno Devi University, Katra and interacted with the students and faculty members of School of Biotechnology. Dr Anuradha Tiwari presented the various research activities and products of Hash Biotech Labs and detailed about their production plant at Dasuya. Hash Biotech Labs Pvt. Ltd. is one of the premier company engaged in Research and Development across a number of fields ranging from bioenergy, food, nutrition, wellness, diagnostics, pharmaceuticals, bioremediation, etc. The company is recognized by Department of Science and Technology, Govt. of India. and also has the rare status of being "Official Working Partner" and "Technology Facilitator" to IIMSAM (Intergovernmental Institutional for the use of Micro-Algae Spirulina against Malnutrition), United Nations. The visit was organized by the joint efforts of Prof. V. Verma, Director, SBT & Dean College of Sciences, Mr. B.K. Bhatia, Placement Officer and Dr. Sharada Potukuchi, Faculty member and Placement Coordinator, SBT. The students were made aware of the purposeful uses of various algae for research and industrial products. The visit facilitates bridging the gap between the institutional education system and real time industry. The team also discussed possibilities of undertaking joint projects with faculty members, industrial training and placement of students of B. Tech (Industrial Biotechnology) and M. Sc. (Biotechnology) from SMVDU.

### **Field Visits Organized for B.Tech students by School of E&CE**

With the objective of ensuring that the students get optimum exposure to real life applications in the field of Electronics & Communication Engineering, the School of Electronics & Communication Engineering has been regularly organizing field visits for the students of B.Tech (ECE) program. The students visited the works of M/s Intex located in the Bari Brahman industrial belt which specializes in the manufacture of Sound & Acoustic systems. The students were exposed to the manufacturing



techniques, methodologies, and quality procedures followed by the company. The students were taken through the complete stages of the manufacture of Speaker Systems and other innovative products of M/s Intex. The General Manager briefed the students regarding the issues involved in production of electro equipment and the proposed expansion plans of the company. The students also visited the Radar Station 256SU to see the working of the state of the art air surveillance equipment of the Indian Air force. The Commanding Officer and his staff members showed the students the various types of radar and information of technical nature regarding their usage and functioning.

### **Management Student Presents Paper at International Conference**

Mr. Anil Tandon and Mr. Eroz Singh ( MBA, Batch 2008-10) presented a paper titled "What Discriminates the Small Business Prospective Manager's Attitude towards Corporate Social Responsibility? An Insight from Psychological Variables" at the International Conference on Management of Micro, Small and Medium Enterprise (MSMECON-2010) held in Institute of Management Technology, Nagpur on September 17-18, 2010.

### **Hunt for Best Student Talent in SMVDU – Star Track 2010-11**



A Quiz Competition Star Track 2010-11 was conducted by M/s. Career Launcher India Limited on 24th September 2010 in the University to hunt for the Best Student Talent . On the occasion Mr. Vivek Sharma, Chief Mentor, Career Launcher India Limited, Jammu region, praised the quality of students of the

University and their willingness to participate in such programmes for their overall development. A total of 60 students of B. Tech. 3rd and 4th Year and M. Sc. 2nd year students participated in the Competition.

### **B.Tech Students Placed with High-Tech Mobile Applications Company DbyDx**

An Off-Campus interview for B.Tech (C.S.E) & B.Tech(E&CE) 2010 batch students was arranged by the faculty of School of E&CE for the High-Tech Core Company M/s DbyDx Software Pvt. Ltd. at their company head- office in Noida. DbyDx is a worldwide provider of technology, outsourcing, and consulting services to Start-up, Emerging, and Established



technology companies and has developed over 50 mobile applications for mobile platforms like Blackberry, iPhone, Google Android, Symbian, J2ME, Windows Mobile. Nine students from B.Tech (C.S.E) (Jayant Pathak, Amit Priyadarshi & Pulkit Gupta, Nilambar Kumar, Shakti Singh Chauhan, Jitender Kumar Yadav, Vineet Shukla, Mahesh Kumar & Santosh Kumar) were selected and have since joined the company as Software Engineer (Trainee). DbyDx also expressed their interest to visit the campus for the next batch. Vice-Chancellor SMVDU Prof. R. N. K. Bamezai expressed his satisfaction on the student's performance and congratulated the selected students and hoped that they would serve as Brand Ambassadors of SMVDU.

### **Marketing Club Organises 'BOLOBANAO' Competition**

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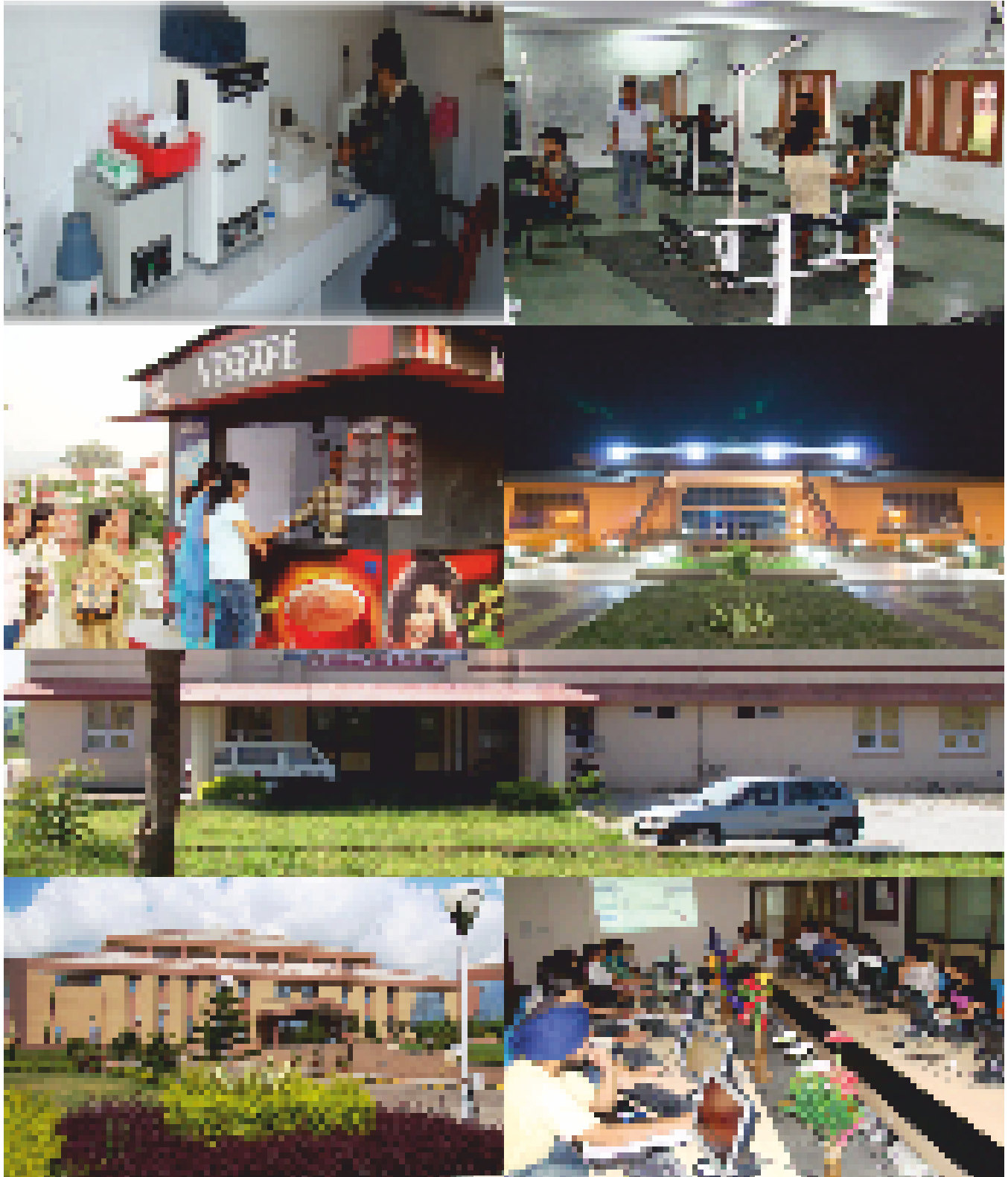
### **Symposium on Gandhi's Two Weapons Truth & Non-Violence**



In association with the Gandhi Global Family (GGF), the Debate Club of University organized a symposium on the theme "Gandhi's Two Weapons – Truth & Non-Violence" on 31st August 2010. Shri S.P. Verma, National Vice President, GGF, introduced the objectives of the Family and emphasized that GGF was established to propagate the Gandhian principles at national and international level in order to attain peace and harmony.

Jenab Ghulam Nabi Azad, Hon'ble Union Minister for Health & Family Welfare, is the National President of the Family.

# CENTRAL FACILITIES/CELLS/CENTRES



## Central Library



Your library is your portrait.

**- Holbrook Jackson**

"A good library is a place, a palace where the lofty spirits of all nations and generations meet."

**- Samuel Niger (1883-1956)**

They are the books, the arts, the academes, That show, contain and nourish all the world.

**- William Shakespeare, *Love's Labour's Lost***

SMVD University Library is a specialized technical library. Library is the knowledge centre of any University which has rich resources mainly in Social Sciences, Humanities, Sciences and Engineering. The Central Library started with 2000 Books on 19<sup>th</sup> August 2004. Within a short span of time the library has acquired more than 32000 books & more than 2100 CD-ROM collections.

On 26<sup>th</sup> July'10, Library has been shifted to its new Central Library Building. The Central Library building is built over an area of 36000 square yards.

Various sections of the Central Library are Acquisition Section, Technical Section, Circulation Section, Reference Section, Periodical Section Book Bank Section, Computer Section, Education@UK Centre and Photocopy Section.

To enrich the Library collection with the quality books Library has organized Book Fair & Book exhibition which was participated by renowned publishers and vendors from all over India in the year 2006 & 2010.

In 2009, British Council established its second centre in India at the University level for Education at U.K. Centre in the Central Library to facilitate providing information about courses offered, scholarships, and exchange programs in the U.K.

The subject coverage of the Central Library collection is Management, Economics, Engineering, Architecture, Sciences, Philosophy, Culture, Religion, English, and Dogri & Hindi Literature.

- **Library Timings**

Library remains open all days except Holidays of the university. Timings of the Library are as follows:

Sr. No.	Collection	Days	Timings
1	Book Stacks for Circulation	Monday-Friday	9:00 AM - 4:45 p.m.
2	Reference	Monday-Friday	9 A.M. - 8 P.M. & 9:00 PM - 10 PM
3		Saturday- Sunday	10 A.M. – 5:00 PM
During Exams: Library is open till 11:00 p.m. (Monday – Friday)			

### ● **Library Membership**

All students, faculty members and employees of the University are eligible for membership of the library. The registered members are issued bar-coded library identity cards.

Category of library members are Students; Faculty members; Staff members, and Research Scholars

At present Library is catering to the needs of more than 1500 users

### **Current Library staff Strength:**

At present, the library is staffed as follows:

Library Professionals:

- Librarian-1
- Assistant Librarians – 1; and
- Library Assistants-9

Administrative Staff:

- Office Secretary - 1

Non-professionals: Attendants-4

- Multi-task attendant including data entry jobs-1
- Attendants-3

The details of Library Personnel involved in the functioning of Library are: -

S.No.	Staff	Designation
1	Mr. Subrata Deb	Librarian
2	Mr. Romesh Chander	Assistant Librarian
3	Ms. Suneeta Raina	Library Assistant
4	Mr. Sandeep Kumar	Library Assistant
5	Mr. Kishore Lal Sharma	Library Assistant
6	Mr. Ashwani Kumar	Library Assistant
7	Mr. Mool Raj	Library Assistant
8	Ms. Pooja Sharma	Library Assistant
9	Mr. Rohit Gupta	Library Assistant
10	Mr. Shiv Saran Singh	Library Assistant
11	Mr. Chandreshwar Gupta	Library Assistant
12	Mr. Jaipal Singh Jamwal	Multi-tasking Assistant

## Strength of Library

Books Collection in the Central Library

S. No.	Items	Collection	Quantity
1	Books	Total Collection	22207
2	CD's and DVD's	Total no. of CDs and DVDs	2143
3	Book Bank	Total no. of Books	12247

Newspaper, Magazines and Journals Collection in the Central Library

S. No.	Item	Collection	Quantity
1	Newspaper	Total No. of Newspaper	11
2	Magazines	Total No. of Magazines	16
3	Printed Journals	Total No. of Printed Journals available	106
4	Online Journals	INDEST-AICTE Consortium	3884

## OPAC/Library Automation

The library is using the LIBSYS - an Integrated Library Management software package with all the modules for the library housekeeping operations. Users can find the latest additions of books and periodicals in the library, and status of books (issued/onshelf). Using LIBSYS OPAC(Online Public Access Catalogue), users can search the Library Online Catalogue by Author, Title, Subject, and keywords. One can also search or check the same on Internet through WebOPAC with the help of LSPremia (the web-enabled LIBSYS) software.

Library catalogue is automated and fully indexed. The catalogue can be browsed and searched by author, titles, and subject/keywords.

The entire Library collection is Barcoded. Bar-coded identity cards printed in the Library are issued to the members. This enables circulation of books in easy, reliable and user friendly manner. Apart from this, any member can also find the status of books issued in their name, overdue, fines, etc.

## Internet Access

Since September 2009 Library is providing access to its users to online periodicals & various information resources from nine internet computers.

## Digital Library

In the year 2008, the Virtual digital Library was established with various online reference resources and access to Open Access Journals available.

## Access to CD-ROMs

Users can access CD-ROM titles through SMVDU-INTRANET.

## **Reprographic Service**

Library provides photocopy service to the users against a nominal charge. The photocopy service is always on high demand.

## **MEMBERSHIP**

### **DELNET Membership**

It is not possible to procure all books or subscribe to all journals. Hence, to get books or journal reprints on request is possible through DELNET, Delhi. Library is a member of DELNET since 2007. We procure books on request through Inter-library Loan (ILL) from the DELNET. One can also find out the books or journals available in various libraries in India with the help of Union Catalogue of DELNET.

### **INDEST-AICTE (IIT) Consortium**

Library is also a member of INDEST-AICTE Consortium for subscribing to access all the online journals in the field of Engineering, Management and Sciences. Through INDEST Consortium Library has access to various publisher journals.

## **Hardware (equipments) and Software**

### **Computers**

Library had 15 computers and recently Library procured 60 new computers utilizing UGC Fund.

### **Library Management Software**

At present the Library catalogue is supported by the Library Management Software called LIBSYS (LSPremia) and is available on the university server.

### **Online UPS**

For power backup to all such computers FOUR Nos. Online UPS have been procured. This will help minimizing data loss and unwanted record freezing / jamming due to unwarranted unsystematic shutdown of a system caused by power failure/load-shedding.

### **Photocopier/Photocopy Machine**

At present library has THREE latest Canon photocopy machines in the library. All these are already placed at different utility locations in the library. One old system is used as back-up arrangement in case of any failure.

## **Growth of Collection**

Till 2009 there were nearly 19000 books available. Out of these, approximately 10,000 books were for circulation and 4500 books for reference purpose. Since 2008, Book Bank facility is made available to B. Tech & MBA and MBE students. Text books are issued from Book Bank to the students on loan basis for each semester and 3500 books were available for this purpose. At present the total Book Bank collection is more than 9000 volumes. Total library collection is 32,000 (including Book Bank). At least 10,000 volumes of books were procured during the financial year 2009-10. This is comparable to any big university in India.

Growth in the number of students, disciplines (Masters Degree):

A. Sciences: (Biotechnology, Mathematics, & Physics)]; and

B. Humanities [Masters Degrees: English Language & Literature].

Expansion of Central Library now onward is very much on priority in order to enrich the knowledge resource of the students and also keeping the faculty members abreast of latest developments in their field of specializations. Providing support and strengthening College Libraries, and opening of School Libraries is very much on the agenda.

## **FUTURE**

In the new building with the various growth factors and aforesaid backdrop library is likely to enrich the following:

### **Books:**

1. General reading books
2. Fictions and leisure reading books
3. Language books (other than English language): Books in different languages; especially in Hindi to promote the National Language and Dogri & Kashmiri to promote and understand the culture of the state i.e. J&K.
4. Reference books
5. Book Bank Books: Text books are provided on loan basis to B. Tech & Management Students for each semester.

### **Equipments & Technology: for modernising the library and it's services the university is planning for RFID technology and NAS Server.**

1. RFID Technology: Our library has already procured the Library software (Libsys). Further, higher level of automation can be achieved using RFID technology. This will help minimizing book theft, further automate book circulation (multiple books at a time) to a user i.e. can be issued or checked-in in a single moment. It will also help in shelf or stack rectification & help minimizing (UN) intentional misplacement of books on the shelves by users.
2. CCTV: CCTV for better surveillance of the Library to detect and minimise any unwanted activities inside against the library is under process.
3. CD-Mirror SERVER/NAS Server for easy and reliable access with proper content is required. CD-ROM data can be mirrored (copied i.e. burned onto the server) to provide campus wide 24X7 access to students as well as faculty members. CD-Mirror Server is under plan.
4. Computer Laboratories equipped with 50 latest computers with Internet access will be made available in the library for users.
5. With the growth of library services and increasing volume of data storage, Library server is required. The Library server is under process for procurement utilizing UGC fund. With the help of server all relevant Library information will be made available to the users through INTRANET.

### **Library Software**

The library has been using the LIBSYS an Integrated Library Management software package with all the modules for the library housekeeping operations. Using LIBSYS OPAC, users can

search the Library Online Catalogue by Author, Title, Subject, and keywords. Also, the users can know the latest additions of periodicals and books and the status of a document (whether on shelf or on issue).

1. LSPremia: the web-enabled integrated library system (LIBSYS) has been provided to in-house users.
2. Bar-coding of entire collection in the Library is done.

### **DELNET**

SMVDU Library is an Institutional Member of DELNET (Developing Library Network).

### **INDEST-AICTE Consortium**

SMVDU Library is a member of INDEST-AICTE Consortium. The INDEST-AICTE Consortium is the most ambitious initiative taken so far in the country. The benefit of consortia-based subscription to electronic resources is not confined to 38 major technological institutions in the country but is also extended to all AICTE-accredited and UGC-affiliated institutions. (645) engineering colleges and institutions have already joined the consortium on their own. Recently (453) engineering colleges and

Institutions joined under self support- new scheme. INDEST –AICTE Consortium provides access to 3942 full-text online journals on various subjects to the in-house users of the University. SMVDU Library has access to 6 major links of INDEST-AICTE Consortium. These are: -

1. ABI / Inform Complete
2. ACM Digital Library
3. ASCE Journals
4. ASME Journals ( + A M R )
5. IEEE / IEE Electronic Library Online (IEL)
6. Springer Link

### **Online Electronic Resources**

1. Digital-Virtual Library
2. Web-OPAC



## LABORATORY INFRASTRUCTURE

State-of-the-art laboratories, containing the computers with latest configuration networked together to ensure that the students get complete facilities to thoroughly understand and explore the concepts of computer science as learnt in the class-room are available in the school. The School of Computer Science & Engineering focuses on preparing globally competitive professionals who are at ease with both hardware and software aspects of the computer. These professionals are trained to innovate and contribute to the growth of Indian economy in the present era of Information Technology. This Programme has been designed to help students impart basic concepts and skills of Computer Science and their applications in diverse areas of software development, hardware technology and networking.

**The schools currently consist of the following laboratories :**



### 1. PROJECT LAB:

Project lab has 21 systems of HP, IBM and Dell make. The systems are connected through LAN with one online UPS of 5Kva for constant uninterruptable power backup. In this Lab the students of VIIth and VIIIth semester do their Minor and Major Projects under the guidance of their concerned Project In-charge using different languages and platforms. The students work in the areas like image processing, NLP, Wireless Networks, Artificial Intelligence, Data ware housing, Multimedia etc.

### 2. DATABASE LAB:

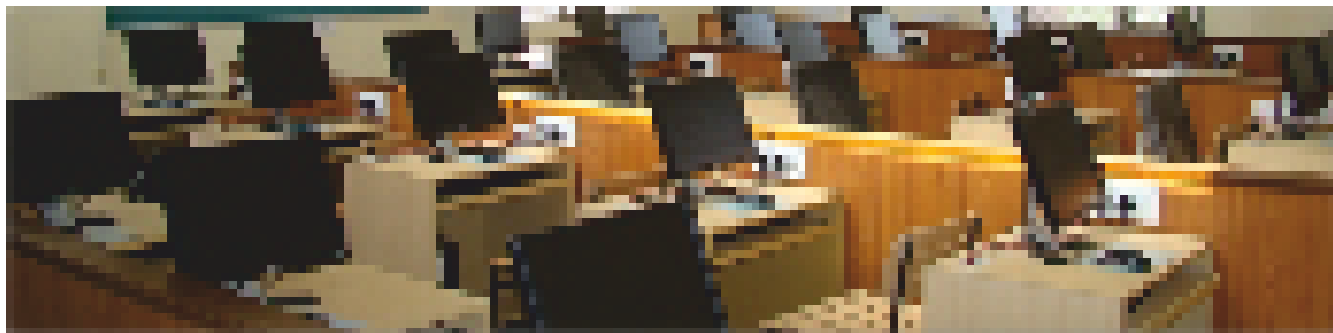
This lab is extensively used by the students for exploring each and every aspect of Database Management System (DBMS). This lab consists the software's like MY SQL Version 5 , Turbo "C" and MS Office. The students are provided hands on training in the areas of Database Management System (DBMS) Lab, Engineering Computational Methods (ECM) and Data Structure (DS). The Lab is equipped with 30 Dell computers of latest configuration and has its

own separate virtual LAN

### **3. INTERNET LAB:**

This lab is established for the purpose of providing the internet surfing facility for the students; it is open 24x7. The students also have been provided the Wi-Fi facility. The Lab consists of 80 terminals connected with the internet bandwidth of 30 Mbps.

### **4. PROGRAMMING LAB:**



Programming lab is used to inculcate programming skills among the students. This lab is helping them to specialize in their concerned subjects. Programming lab is equipped with 30 DELL Optiplex 330 PC's. Processor- Pentium Core II dual HDD- 160 GB 1 APC UPS providing power backup in case of power failure. This lab is meant for conducting labs mainly for programming languages like VB.Net, Sql Server Enterprise, Java, C++, Graphics in C & Mini projects.

### **5. OPERATING SYSTEM LAB:**

This lab is well equipped with the latest 30 Dell Optiplex Computer systems for the students. This lab is used to provide students exposure in the areas of Operating Systems & Systems Development. The students are taught Unix, Red Hat Linux, Ms-Windows operating systems besides courses on Data Structures etc.

### **6. BASIC COMPUTING LABORATORY:**

This lab is well equipped with the latest computer systems for the students to discuss each and every aspect of basic computer system. It is used extensively by students for learning of foundation of information technology like MS-WORD, MS-EXCEL, MS-POWER POINT and MS-ACCESS. It is also used for programming using "C". This lab is well equipped with all aspects of the students of the students of B. Tech. The total number of systems in the lab is 30 with online back up.

### **Biotechnology Laboratories**

Molecular Biology and Protein Biochemistry

1. Microbiology and Fermentation lab
2. Biotechnology and Recombinant DNA Technology lab
3. Organic Chemistry Lab.
4. Inorganic Chemistry Lab

### **Electronics Laboratories**

1. Communication Engineering Laboratory
2. Operating System Laboratory

3. Microprocessor Laboratory
4. Electrical Machines Laboratory
5. Control Systems Laboratory
6. Power electronics Laboratory
7. Electronic Measurement & Instrumentation Laboratory
8. Digital Signal Processing Laboratory
9. Advanced Comm. Laboratory
10. Simulation Laboratory

The School of Electronics and Communication has put in place the best instructional and infrastructural facilities required for providing knowledge of all aspects of electronics and communication engineering.

### **Catering Facility**

The catering services for the students, faculty and staff have been outsourced and are being rendered by contractors in the boy's and girl's hostels thereby reducing the management related issues for the university. More establishments are expected to be made operational in the near future. Each hostel has its own Mess facility and this is monitored by a committee consisting of the Hostel Warden, Hostel Caretaker & nominated students from the hostel. Thus the students have an effective role to play in ensuring that good quality food, tasty and hygienic is available to all students. The Committee has the mandate to change the Menu as well as impose fine on the caterer in case of any discrepancy.

### **Shopping Complexes**

The Main Shopping Complex, close to the Medical Center consists of 10 shops which cater to virtually all the requirements of the residents of the university including students, staff and faculty members. These shops include two Grocery cum General stores having all modern amenities, Sweet Shop, Snacks Shop, Barber Shop, SMVDU Gas Agency, Amul Outlet, Chemist Shop etc. Stationery Shop is located close to the Boy's Hostel.

### **Banking & ATM Facilities**

The **J&K Bank** and **Oriental Bank of Commerce** have a branch each on the campus which caters to the students, staff, and faculty members of the university. The J&K bank has the facility of an ATM. Facility of electronic transfer of funds exists with these banks. Each student of the University is required to have a Bank Account with any one of these banks which is utilized for the students' personal finance as well as any refunds from the university.

### **Post-Office**

The postal department has opened a post-office for the use of the residents of the university in the campus itself. The post-office has all standard facilities including Money order, Speed Post, Registered Post etc. The postal address of the campus is Shri Mata Vaishno Devi University Sub Post Office, SMVD University, Katra 182 320 J&K, INDIA

### **Schools for Children**

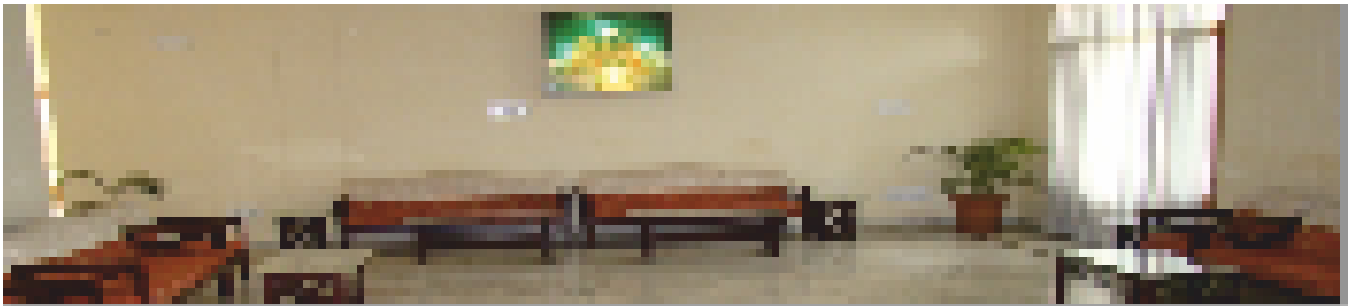
The well known Delhi Public School (D. P. S.) has opened a school in the university campus for the children of the faculty and staff members staying on campus. The school is also open to people from neighboring locality and the holy town of Katra.

## **SMVDU offers following facilities to the recruiters**

The team at T&P Cell at SMVDU makes every effort to ensure that the process of interaction between the recruiters and the students is conducted smoothly. To this end the university has taken steps to ensure that all necessary infrastructure required for the recruitment process is in place.



The University is well known for providing excellent hospitality to the recruiters in the University Guest House which has all modern facilities and amenities to ensure a comfortable stay in the campus. Personalized care is provided to the guests staying in the Guest House.



The Campus is 40 kms from Jammu Airport & Railway Station. The University provides comfortable Vehicles to pick up and drop the Recruitment team to the Airport/Railway Station. Arrangements are also made for local sight-seeing if desired.



University has created excellent infrastructure keeping in mind the amenities needed for facilitating the recruitment process. **State-of- art auditorium "Matrika"** equipped with excellent audio-visual facilities and with a seating **capacity of 1000**. This can be used making corporate presentations.

Seminar Hall "*Sanskriti Kaksh*" equipped with excellent audio-visual facilities and a **seating capacity of 300**.

**Four Special Lecture Theaters** equipped with audio/visual facilities are available for closer interaction between the recruiters and the students. Each lecture theatre, built like an amphitheater, has a **seating capacity of 150**. **20 Class rooms** each having seating capacity of 60 students are available for conducting written test in case of pool campus drives. Air-conditioned **Group Discussions/ Conference rooms/ Interview rooms Video Conferencing facility & Audio Conference Facility** is available for conducting off-shore interviews **E-placement facility** is also being made available to the recruiters. The T&P Cell also facilitates visit to the world famous **shrine of Shri Mata Vaishno Devi**, the deity after which the University is named. Arrangements can also be made for **local sightseeing** if so desired by the recruitment team.

The university has a guest house on campus with 15 well appointed rooms and 4 suites to accommodate guests of the university, guests of the Faculty, Staff & the students. All the rooms are air-conditioned, have wall to wall carpeting & Satellite dish Connection to the Television. Mess facility with food made to order is also available in the Guest House.

### **Power & Water Supply**

Enough care has been taken to provide all the basic necessities required for healthy and happy

stay and learning on the campus. Looking at the overall erratic power supply in this part of the country, the university, from the very beginning, decided to have an exclusive 33KV substation on the campus to ensure uninterrupted power supply to all the parts of the campus, deriving input directly from the Jajharkotli grid. As the result of this there is no shortage or curtailment of the power on the campus, a great advantage for the fully residential University. The University also provides uninterrupted power back ups, wherever required, with the help of high power generator and inverters. The University has a dug well with a provision of pumping and storing 1, 00,000 gallons of good water in the campus daily. The quality of water supplied is good for human consumption and is checked regularly for quality.

## **Transportation**

The public transport facilities are available in the form of min-bus which plies on the Domel-Katra route. All buses stop in front of the university gate and are available every hour. The University has also organized its own bus facility for students from Campus to Domel and back on specific times during the weekdays and the weeknds for the convenience of the students. a specail bus facility from Campus to Jammu and back is available on every Saturday for the convenience of Faculty & Staff members and their families.

## **Telecommunication Centre**

The upgraded BSNL ISDN (Integrated Service Digital network) 512 line telephone exchange and a mobile tower is installed in the SMVDU campus. The Land & Building for the said purpose was provided by the university to have better telephone connectivity on the campus. The UG telephone cable is laid in the entire campus to provide the BSNL land-line numbers anywhere in the campus. This exchange has provided the lease line to various banks in the campus as well as out side the campus. The villagers in the adjoining areas are also taking the advantages of fault free telecommunication service. On our request BSNL officials are available in the campus on 3<sup>rd</sup> of every month to collect the payments of the bills raised by BSNL against the use of land line and Mobile phones. With the help of this facility no body in the university needs to go BSNL counter to pay their bills.

Telecommunication wing SMVDU organizes SIM Mela in the month of August every year to provide the Mobile SIM`s. Almost all students, faculty members, other staff members and especially newly admitted students have been taking advantage of the same. All the J&K telecommunication service providers like BSNL, AIRTEL, Reliance, Vodafone and AIRCEL have been participating in the said Mela.

SMVDU has upgraded the Siemens Hipath 4300 to 4000 V2.0E simplex IP ready communication server with 336 Analog Extension's (Expandable up to 1392 Extensions), 24 Digital Extensions and 24 trunk lines with CLIP facility on each extension. Locking/unlocking, DND, call Pickup, Call forwarding, Polarity Reversal, add on conference (3-Party), is among the common features of our upgraded EPABX system. The voice mail is also operational in the system which enables the outsider to reach any extension without any help from operator. We have the latest call billing software which keeps the record of all outgoing calls.

The new pattern of extension number was introduced in SMVDU in such a manner that one can guess whether the Extension number belongs to residence or office and even the department

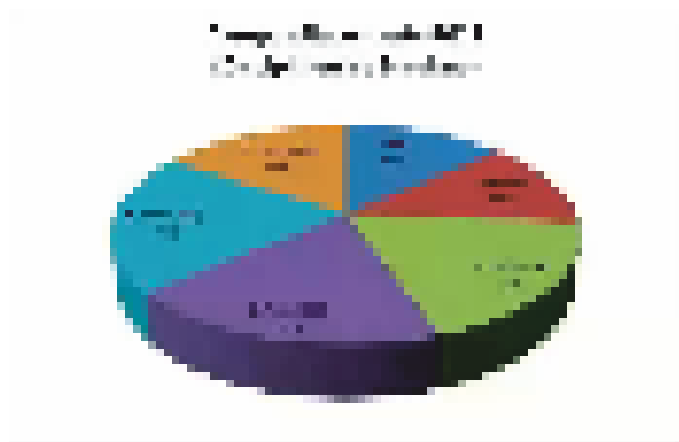
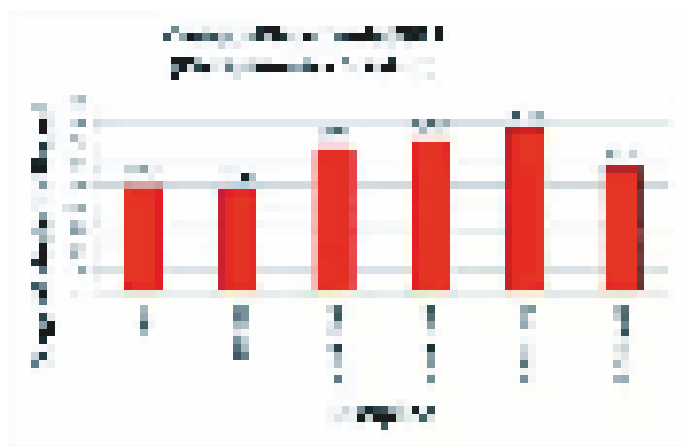
can also be identified.

In order to monitor the telecommunication system and other field complaints the staff of telecommunication wing of SMVDU is available in the university throughout seven days of a week.

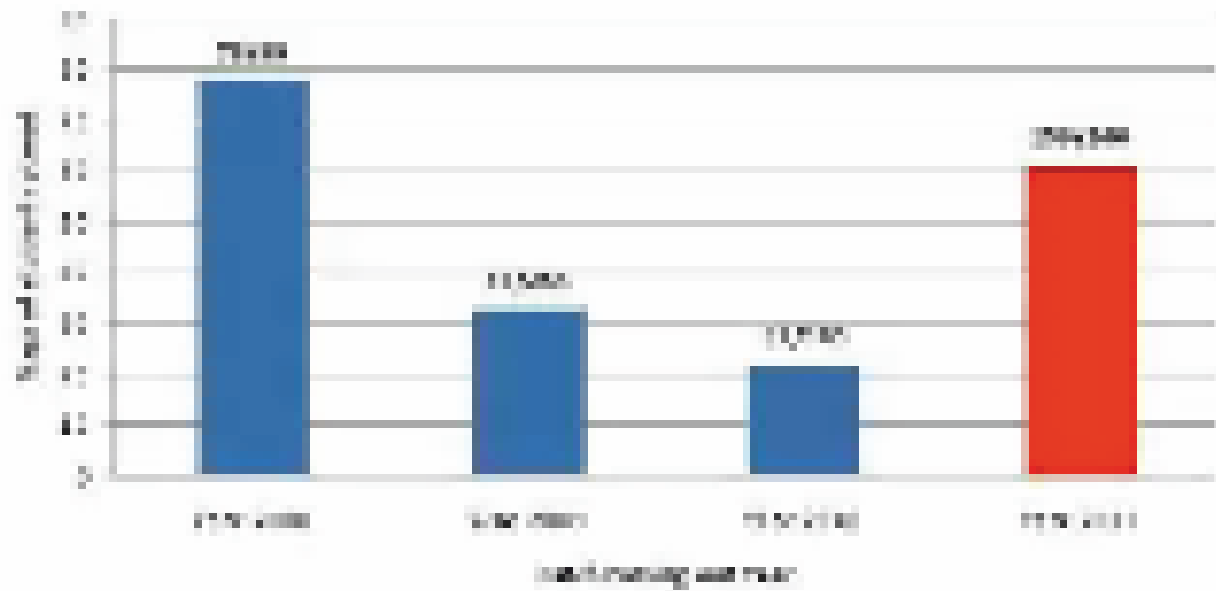
## Training and Placement Cell

Shri Mata Vaishno Devi has established a full fledged training & Placement Cell consisting of Student Coordinators, Faculty coordinators and staff members. The Training & Placement Cell handles all aspects of Training of Students & Campus Placements for the graduating students at SMVDU. Training & Placement Officials and the Volunteers facilitate the recruiters for Pre-placement Discussions, Conducting Tests & Interviews and Hospitality of the Campus Hiring Team. The Hospitality and the functioning of the Placement Cell at SMVDU is applauded and well received by the visiting recruiters every year. The Training & Placement department of the university is continuously engaged in organizing Corporate Training for the students of professional programs like B.Tech, B.Arch, M.Tech & M.B.A. Students are actively involved in this process along with the support of the faculty members.

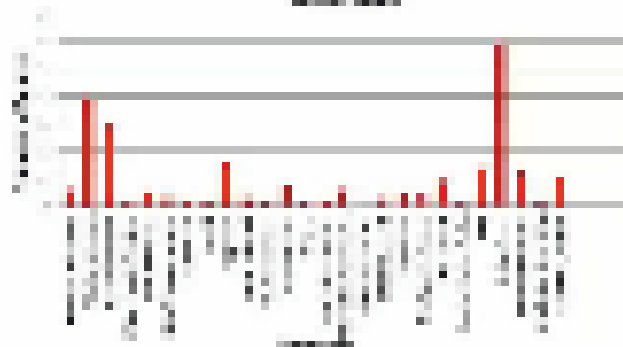
The department places a significant focus on facilitating Placement of the passing out students by inviting well known organizations to the campus to interview the students. The department also coordinates the organization of Joint Campus Placement opportunities for the students of the university.



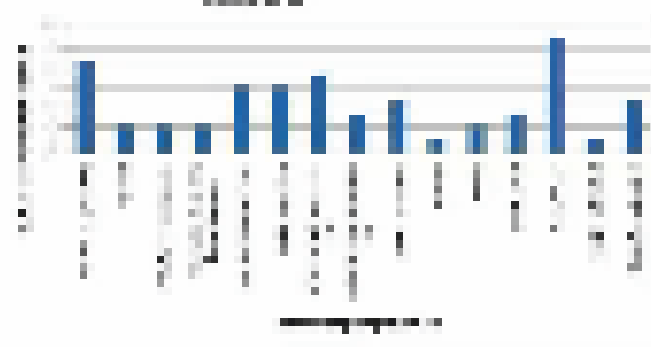
## Yearwise Placement Record



Topmost 10 students  
in the class



Topmost 10 students  
in the class





# Gender Sensitization Committee Against Sexual Harassment Annual Report w.e.f April 2010 -April 2011

## **GSCASH: First Year of Sensitization and Commitment in SMVDU**

Gender Sensitization Committee Against Sexual harassment (GSCASH) has evolved in the present times as a full-fledged institution for imparting gender sensitization and justice to prevent sexual harassment and gender discrimination in the campus.

Following the guidelines on the prevention and deterrence of sexual harassment in the workplace laid down by the Supreme Court of India in its 13 August 1997 judgment on the Writ Petition (Criminal) of Vishaka vs State of Rajasthan, the Vice-Chancellor of Shri Mata Vaishno Devi University, Prof. R.N.K Bamezai assigned the task of formulating the mandate of the GSCASH of Shri Mata Vaishno Devi University based on Jawahar Lal University, New Delhi model to Dr. Vandhana Sharma in March 2010. On the International Women's Day, the first draft of the mandate was submitted to the Hon'ble Vice Chancellor when the university also observed Women's Day Celebration in the campus for the first time. The celebration was not only about celebrating womanhood but also promoting gender sensitivity amongst all sections of the whole SMVDU community through number of thought provoking events like staging a Play, Tara, a skit, a mime and songs.

The draft of GSCASH was approved and ratified in the Academic Council and the Executive Council of the University and the Gender Sensitization Committee Against Sexual Harassment (GSCASH) was set up vide a Shri Mata Vaishno Devi University notification dated 16 April 2001 with the following members:

1. Dr. Vandhana Sharma ( Chairperson)
2. Ar. Arshia khajuria ( Faculty representative from women)
3. Dr. Suparn Sharma (Faculty representative )
4. Ms. Tripti Saitu ( woman officer)
5. Ms. Shafla Parihar (representative of woman staff)
6. Ms. Sonika Gupta (Warden representative)
7. Mr. saurabh Srivastava ( Warden representative)
8. Ms. Madhu Bala (Student representative)
9. Mr. Sunny Gupta, (Student representative)
10. Dr. Renu Nanda ( eminent women academician from outside the university)
11. Prof. Rita Munshi ( member of NGO from outside university)

The GSCASH has three major functions:

1. Gender Sensitization and Orientation,
2. Crisis Management and Mediation
3. Formal Enquiry and Redressal of Complaints.

## **I. Gender Sensitization Programmes**

Sensitization and Orientation has been the raison d'être of GSCASH in its first year so as to evolve GSACSH into a full-fledged and active institution, which has the potential to address matters pertaining to gender insensitivity, prevention, prohibition and redressal of sexual harassment issues positively; and help to cultivate an environment free of hostility, gender discrimination and inequality in Shri Mata Vaishno Devi University. Following programmes were organised by GSCASH in the year:

### **a. Public Meetings**

Student representatives organized public meetings in various hostels in the Campus to debate issues pertaining to sexual harassment and gender sensitivity in the presence of the Chairperson, Dr. Vandhana Sharma.

### **b. Preparation and Distribution of Hand-Outs for Gender Sensitization**

GSCASH prepared two hand-outs for sensitizing students and other sections of the SMVDU community regarding GSCASH and its activities. The hand-outs were put up on the notice boards of all colleges and were distributed in various Schools and hostels.

### **c. Talks Delivered**

<b>S.No.</b>	<b>Resource person</b>	<b>Topic of the Talk</b>
1.	Prof. Deepshikha Kotwal Department of English University of Jammu	Understanding Gender
2.	Mrs. Bulbul Das Senior Advocate, Supreme Court of India & Member, National Commission for Women	Women and Law

### **c. Poster Competition for Students**

GSCASH conducted poster competition for students in the month of March 2011. The themes were the following:

1. For poster competition 'Equal Access to education, training and Science and technology: Pathway to decent work for women'.

### **d. Women's Day Celebration**

International Women's Day was observed in the University with a thought provoking programme presented by students and the Gender Sensitization Committee Against Sexual harassment of the University. In tune with the global United Nation themes used for International Women's Day - 2011: Equal access to education, training and science and technology: Pathway to decent work for women the Gender Sensitization Committee against Sexual harassment, organised sensitization and counselling sessions for women in the vicinity of the campus as part of social responsibility. The chairperson of the committee, Dr. Vandhana Sharma along with the member of the committee Ar. Arshia Khajooria and Deputy medical superintendent of University, Dr. Vidushi Kapahi visited the adjoining villages and brought awareness among under privileged women on

issues related to their social and physical being. Later in the evening, all schools and colleges of the university assembled in the central lawns to celebrate the 100<sup>th</sup> International Women's Day. The Vice Chancellor, Prof. R.N.K Bamezai was Chief Guest on the occasion and greeted everyone on this occasion of international importance and appreciated the posters displayed by students on the theme of the Day. The Registrar, Ms. Roop Avtar Kaur and all Deans and Directors were also present on the occasion.

## **II. No. Of Complaints filed in GSCASH during 2010-2011**

<b>Month</b>	<b>Nature of Complaint</b>	<b>Formal Enquiry and Redressal</b>	<b>Status</b>
April 2011	Female Students against class mates for posting offensive material on Facebook	Counselling of defendant and warning letter issued	Completed
April 2011	Female student against a class mate for posting offensive material on Facebook.	Counselling of defendant and warning letter issued	Completed
April 2011	Female student against a class mate for spreading rumours against the complainant.	Counselling of defendant and warning letter issued	Completed
September 2011	Female Students against class mates for posting offensive material on the Facebook	Counselling of defendant and warning letter issued	Completed

## **III. Formal Enquiry and Redressal of Complaints**

Following are the nature of allegations found in various complaints filed in GSCASH during 2010-2011:

spreading rumours, using slang language, attempts of character assassination, cyber sexual harassment especially abusive remarks written on social networking site like Facebook account.

From many depositions it could be understood that sexual harassment is a result of

patriarchal mentality of the perpetrator and the perception that girls or women are sexual objects. During depositions of many cases, the accused mostly try to portray the girls as silly, as making conspiracy against good people out of frustration and in some cases the accused also have resorted to maligning and doing slander campaign against complainant.

Since all the complaints received in 2010-2011 reflected gender insensitivity of students (male), the students were counselled during enquiry and were issued a warning letter to be careful about their conduct in future.

## Network Centre

The available IT and Internet network of the Shri Mata Vaishno Devi University can be considered as one of the best in the state of Jammu and Kashmir as regards the quality of equipment, and demand and supply parameters are considered. In campus wide networking phase-3 Project Network Centre has provided Internet connectivity to all departments, hostels, administrative offices, Central Library, Auditorium, School of Architecture, AP Residence, guest house, and is likely to provide these services to faculty residences as well. All the departments as well as new Blocks having structured cabling system which is a complete system of cabling and associated hardware, which transmit data through a computer network. Backbone cabling is used for handling the major network traffic. The current standard for building cabling is CAT6. All the colleges and Blocks of the University connect to the network control center housed in the College of Engineering Building by Multi mode Fiber (MMF). The University owns and manages its own network. Edge switches in each building/Blocks provide Fast Ethernet and Gigabit Ethernet connectivity and separates the internal LAN as well. The Network Centre serves as the control point for the Internet facility available in the University.

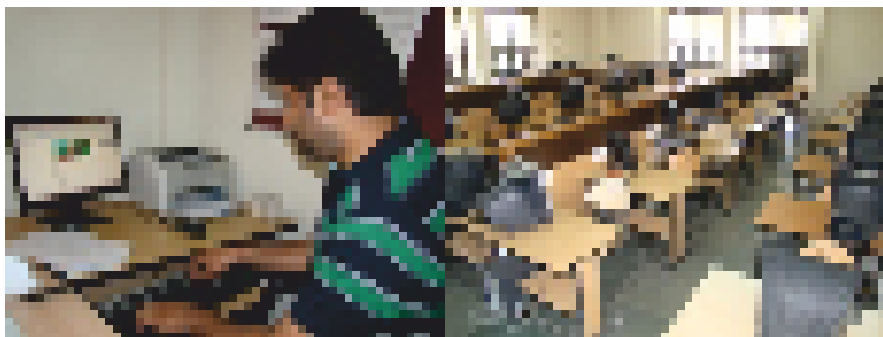
Following Departments are covered in Campus wide Networking Phase-3 Project is given below:-

### 1. Central Library:

90 numbers of nodes are installed in Central Library for internet and Intranet (Libsys) services which are connected with Cisco Manageable Switches configured and installed in Centralized place of Library which again connected with Centre Core Switch through Optical Fibre Cable (OFC). Wireless Facility provided and Surveillance IP Camera also connected through network for Security.

### 2. School of Architecture

In Architecture Department, Internet facility provided in every Faculty Cabins and Computer lab .Edge Switches are configured and installed in ground Floor and first Floor for providing internet services. Proper Structure Cabling has been done in lab for 40 Computers.



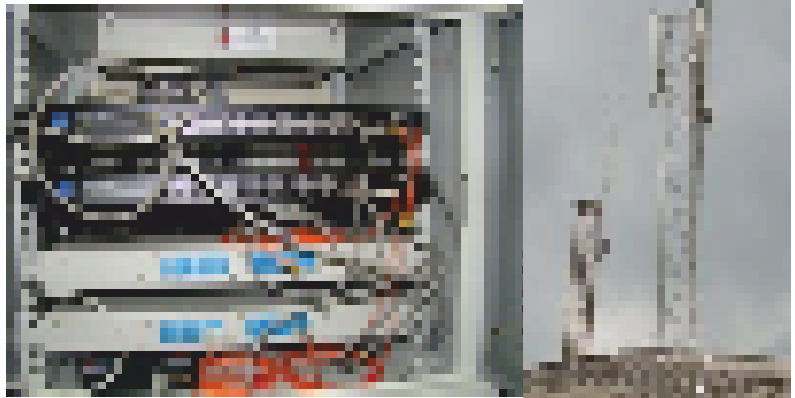
### 3. Guest house

The whole Guest House having structured cabling system which is connected with manageable switch for fast connectivity. Internet/network point facility provided in all rooms of the Guest House.



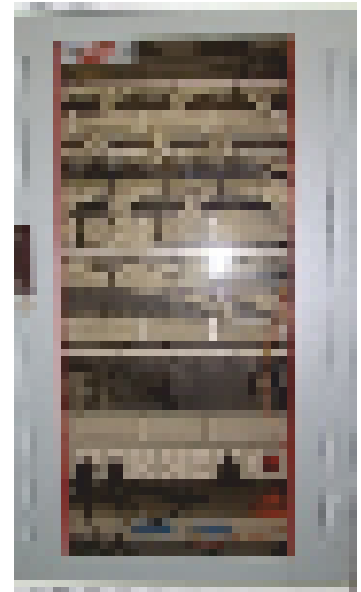
### 4. Hostels

All the Hostels are connected through Network Centre by Multi mode Fiber (MMF). Manageable switches in each Hostel provide fast speed for Wireless Towers.



### 5. Auditorium

The whole Auditorium having structured cabling system which is connected with manageable switch for fast Ethernet connectivity. Wireless facility also provided on Dice.



**4. External & Remote Access:** - Bharat Sanchar Nigam Ltd. is providing 1 GB connectivity through NME and all fiber links from Udhampur NIB. Airtel also providing 10 mbps connectivity through radio and Reliance providing 20 mbps which will upgraded to 40 mbps soon.

## Medical Aid Centre

The details of Personnel involve in the functioning of Medical Aid Centre are:

S. No	Name	Designation
1	Dr. Pallav Sharma	Medical Officer
2	Dr. Shikha Dwivedi	Dy. Medical Officer
3	Dr. Vidushi Kapahi	Dy. Medical Officer
4	Ms. Basanti Kumari	Staff Nurse
5	Ms. Sneha Pathania	Staff Nurse
6	Mr. Vijay Kumar	Laboratory Assistant ( Pathology)
7	Mr. Manish Anand	Pharmacist
8	Mr. Vinod Kumar	Pharmacist
9	Ms. Poonam Sharma	Assistant

### Facilities

OPD:-OPD services are available to all the inhabitants of the university. Emergency services are available round the clock.

### Laboratory

A well equipped Clinical Laboratory with Semi- Auto analyser is functional in Medical Aid Centre.

### Physiotherapy Unit

A Physiotherapy Unit with all latest Physiotherapy equipments, ECG facility is also available.

### Ambulance Service

An ambulance is available round the clock.

### Referral

Referral to Government Medical College, Jammu and ASCOMS, Jammu in extreme emergency.

### Immunization

Under Border Cluster Scheme, on every 4<sup>th</sup> Thursday of month, a team of qualified personals of Health Department visit the campus to Provide free of cost immunization.

### Chemist

A well stocked and 24 hours open chemist shop is situated next to Medical Aid Centre.

Reimbursement to all indoor patients (for staff)

## **Ward**

Separate wards for male and female indoor patients.

A Dental Unit will be shortly set- up having a Dental Doctor and a qualified Dental Assistant.

OPD services are also rendered to inhabitants of nearby villages and CRPF camp personals.

During the year 2009 Total No. of patients seen in OPD-&7420. This year till 9<sup>th</sup> September 2010, No. of patients seen 4597.

## **Publication & Media Cell**

The Publication and Media acts as an interface between the University and the press and projection of the images of the university through print and electronic media. The Publication & Media Cell has following major functions:

1. Publication of Annual Report.
2. Publication of half-yearly newsletter "Chronicle" .
3. Coverage of all the events throughout the year.
4. Photography/video of the events, academic, cultural and sports.
5. Preparation and publication of press releases in print and electronic media.

## **Sponsored Research and Development Division**

Sponsored Research and Development Division came into existence on October 23, 2009 with an aim to promote and encourage faculty and staff interaction with industry through sponsored research projects, consultancy, conferences, workshops, Faculty/Executive Development Programmes etc. The Sponsored Research and Development Division (SRDD) was specifically set up to provide specialized administrative and managerial support for the operation of Sponsored Research Projects, Consultancy Jobs and other related R&D activities. Over the years, the institute has set up some modern laboratories and supporting infrastructure through these projects.

Major focus areas of the SRDD are as follows:

1. Professional consultancy by the faculty to industries.
2. Workshops, conferences and symposia with joint participation of the faculty and industries.
3. Industrial testing by faculty and technicians at site or in laboratory.
4. Memoranda of Understanding between the Institute and Industries to bring the two sides academically and strategically closer.
5. Human Resource Development programmes by the faculty for practising engineers.
6. R&D laboratories sponsored by industries at the Institute.