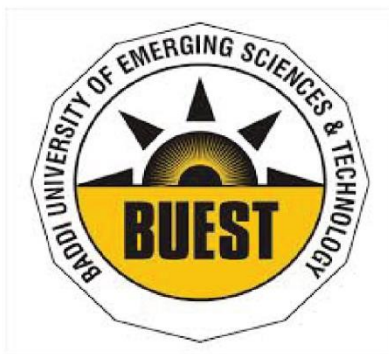




# **Annual Report 2015-2016**



**Baddi University of Emerging Sciences & Technology**  
**Baddi, Himachal Pradesh-173205**

# ANNUAL REPORT

2015-2016



**BADDI UNIVERSITY OF EMERGING SCIENCES AND TECHNOLOGY**

**July 2015-June 2016**

## CHAIRMAN's MESSAGE

### *Resilience in the face of the headwinds...*

Baddi University of Emerging Sciences and Technology is a university that celebrates creativity, innovation, design, and social research. The business of running a university can be a challenging one, but Baddi University is approaching its future strategically and from a student-centered perspective. The university is looking at the best new ways to promote lifetime learning in this region, including undergraduate and graduate degree programs, professional and continuing education, and a wide-ranging mix of public programming. For myself and my fellow trustees, it is important that Baddi University maintains a strong financial position so that these programs can be accessible to the most talented students, regardless of their individual financial backgrounds.



As chairman, I have had the opportunity to meet stimulating and accomplished faculty, dedicated staff, and creative and passionate students. These students are receiving a strong liberal arts educational foundation, as well as the skills and perspective they need for the emerging creative economy.

Baddi University's alumni will have much to contribute to the world around them. I look forward to seeing their accomplishments and seeing how their achievements improve the lives of others.

I congratulate all BUEST members, leadership team, and other staff members for making this year a happening one, that reflects through this Annual Report, I look forward to Baddi University's continued progress in the future annual report.

**Shri Ram Prasad Agarwala**

## CHANCELLOR'S MESSAGE

2015 was a year of celebration as we completed 14 years of achievement and success. Baddi University of Emerging Sciences & Technology (BUEST) continued its commitment to equity, great teaching and learning, to bring forth future-ready professionals, innovators and entrepreneurs, together with leading edge research and innovation which will enhance the economic and social wellbeing of the communities we serve.



With an element of uncertainty facing the higher education sector, it is important for BUEST to continue to build on the strong foundation of the last 14 years, while driving a bold and inspiring future for our regions and beyond.

BUEST members and the executive team have worked together to prepare a strong strategic plan, and under the Vice-Chancellor's leadership, the university is focused on delivering the outcomes to ensure the success and sustainability of BUEST.

Our success will be determined by the quality of our graduates and we are committed to providing a unique teaching and learning experience for our students. The extensive inclusion of work integrated learning ensures that the university produces highly qualified, work-ready graduates. It has been a great source of pride to see our staff and students recognized for their outstanding achievements during 2015.

BUEST will continue the momentum built in recent years under the leadership of Vice-Chancellor Professor Dr. Shakti Kumar. Dr. Shakti Kumar's vision and determination has proved the university its identity and growth as a world class institution and has firmly marked BUEST as a leader in equity, Indigenous education, regional transformation and global research.

I congratulate the Vice Chancellor and his team for their tireless efforts in creating a strong image of BUEST not only in India but also in abroad as the University of excellence in quality education and research which is reflected in the annual report of 2015-16.

**Shri Pradeep Srivastava**

## VICE CHANCELLOR MESSAGE

It is a pleasure to present the 2015 Annual Report for Baddi University of Emerging Sciences & Technology (BUEST). This report details the achievements and challenges of the last 12 months of Baddi University's successful role in the field of higher education. 2015 has been notable on a number of fronts. Baddi University has ranked A++ in All India B-School Survey by Chronicle. It's particularly gratifying to see that the university once again attracted the highest percentage of the top students' first preferences. Also notable was Baddi University's outstanding achievement in winning Excellence Award.



**Prof. (Dr.) Shakti Kumar**

I have been consistently impressed by the dedication with which our academic and professional staff serves our community through education and research. The university continued to educate the high-performing, ethically aware professionals that government, industry and the third sector demands. Our research strength is helping to build collaborative engagement with industry, business and government partners. This assists our goal to link BUEST's research expertise with industry to commercialize innovative technologies so that business, industry and the community can benefit and profit from our front line research.

BUEST has initiated a very unique programme named Performance Enhancement Program (PEP) under the guidance of our Hon'ble Chancellor and imbibe the concept through Value Based Learning, Project Based Learning and Personality Development Program to bring out the best in students. The university met with some notable successes in our efforts to improve lives around the world by tackling great research challenges. To that end, we continued to strengthen our industry partnerships. The university undertook a number of initiatives to make our campus even more vibrant and stimulating.

BUEST has organized workshops on Human Values and Ethics to promote ethics and values in the students. The university undertook various initiatives to get rid of the menace of use of drugs by the students. The University ended the year in a sound financial position. It was a record year for fundraising, and we thank our stakeholders, alumni and other friends of the University for their Generous Support. These are only some of the highlights of a very successful year for BUEST.

I congratulate all BUEST members, leadership team and other staff on all that has been achieved, not only in 2015, but over the past years. However, based on the strong work done in 2015 and previous years, I am confident that Baddi University will continue to support the goals of the state and the nation with growing success into the future.

**Prof. (Dr.) Shakti Kumar**

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## **PROFILE OF THE UNIVERSITY**

### **GENESIS**

The Society named Center for Advanced Studies in Engineering (CASE) was established on 2nd May, 2000 with a deep commitment to promote and propagate quality technical education. The commitment was translated into reality with the establishment of School of Engineering & Emerging Technologies (SEET) at Baddi in the year 2002.

The Society, through this institute, has been providing B.Tech. Engineering (Computer Science Engineering, Information Technology, Electronics & Communication Engineering, Mechanical Engineering, Electrical Engineering and MBA courses to the youth of Himachal Pradesh and other states of India. Two new departments, Computer Applications (offering MCA degree) and Civil Engineering (offering B.Tech. Degree) were added in the Institute in 2008. Over the years SEET achieved the status of a premier institute in imparting career oriented education in these fields.

In the year 2007, the Society established the School of Pharmacy and Emerging Sciences (SPES) and started 4-year B. Pharm. course from that year. In 2008, one more prestigious institute viz. School of Management Studies (SMS) was started offering MBA course. All these institutes comprised the CASE Group of Institutes. The institutes of CASE Group are known for their academic excellence and their total commitment to superiority in technical and management education with holistic concern for quality of life, environment, society and ethics. Through continued efforts of the Management, the Society has been able to achieve the status of a university incorporating the CASE Group of Institutes, Baddi University of Emerging Sciences and Technology. This university will continue to promote effective and innovative learning methods by using latest technology.

### **VISION**

We are committed to be known for creating and imparting knowledge to prepare future ready professionals who would make positive impact in society.

### **MISSION**

We would achieve our vision through Learning, Ideation and Application of knowledge by:

1. Creating a state -of- the- art teaching learning process.
2. Creating stimulating environment conducive to out -of- box thinking.
3. Encouraging Industry oriented Project based learning.
4. Value based learning by imbibing core values of-
  - a) Respect for individual
  - b) Integrity
  - c) Credibility
  - d) Excellence.

## COLLABORATION

### International Tie-Up

Baddi University of Emerging Sciences & Technologies has signed an MOU with Stamford International University, Thailand to offer the following to the deserving students:

- To provide high quality education.
- Baddi University students to progress to programs of study at Stamford International University.
- To teach Stamford modules at Baddi University campus so that students can do part of their program at Baddi University and complete it at Stamford.
- 2+2(Undergraduate degree and MBA) program 1+2 (Undergraduate degree) program between Baddi University and Stamford.

### OUR INDUSTRIAL PARTNERSHIP

#### IBM-ICE Program

IBM-ICE is the Innovation Center for Education (ICE) at BUEST powered by the industrialized expertise of the IBMers of ICE team. The aim of this program is to develop a customized industry oriented curriculum that skillfully nurtures and mold the students into industry-ready professionals by focusing on real time learning via live projects, curriculum enablement and developments tuned to current industry needs and collaborative research.



#### INFOSYS CAMPUS CONNECT

BUEST has been associated with Infosys under Infosys Campus Connect program since 2008 enhancing the new ideology of bridging gaps between industry and campuses. BUEST is the advanced level academic partner of Infosys Ltd, and is registered for over 20 courses under this value added program. The collaborative effort by BUEST and Infosys ignites as inspirational spark in the students to blossom into competent professionals of future.



#### 'UTKARSH' PROGRAM

This program of TVS Motor Company Ltd, is specifically designed for undergraduate engineering students (pre-final year) from prominent engineering colleges in India. These young minds are given ample opportunities to pursue industry related projects both in their pre-



final and final year in TVSM. They are tutored, mentored and guided by the best of talent & experience; thereby developing their inherent curiosity towards engineering and hone their skills to face the world after graduation. The best of the interns are extended PPO (Pre-Placement Offers) in their 7th semester.

### **EMPLOYABILITY SKILLS DEVELOPMENT (ESD) PROGRAM**

Zensar Technologies and Zensar Foundation offer its new program “Employability Skills Development (ESD) Program for training of fresh graduates towards better readiness for the IT industry, at no cost to the student. BUEST’s aim is to polish the students and make them industry ready in order to cater to the dynamic needs of today’s IT industry which requires competent, hands-on and able data and information Engineers.



### **STATUTORY REGULATIONS AND APPROVALS**

BUEST has been established under Act No. 21 of 2009 of Himachal Pradesh Government & approved by the UGC under section 22 & 2F of the UGC Act 1956 and has the following approvals.

#### **UGC Approved**



#### **PCI Approved**



### **ABOUT CHANCELLOR**

#### **Shri. Pradeep Srivastava**

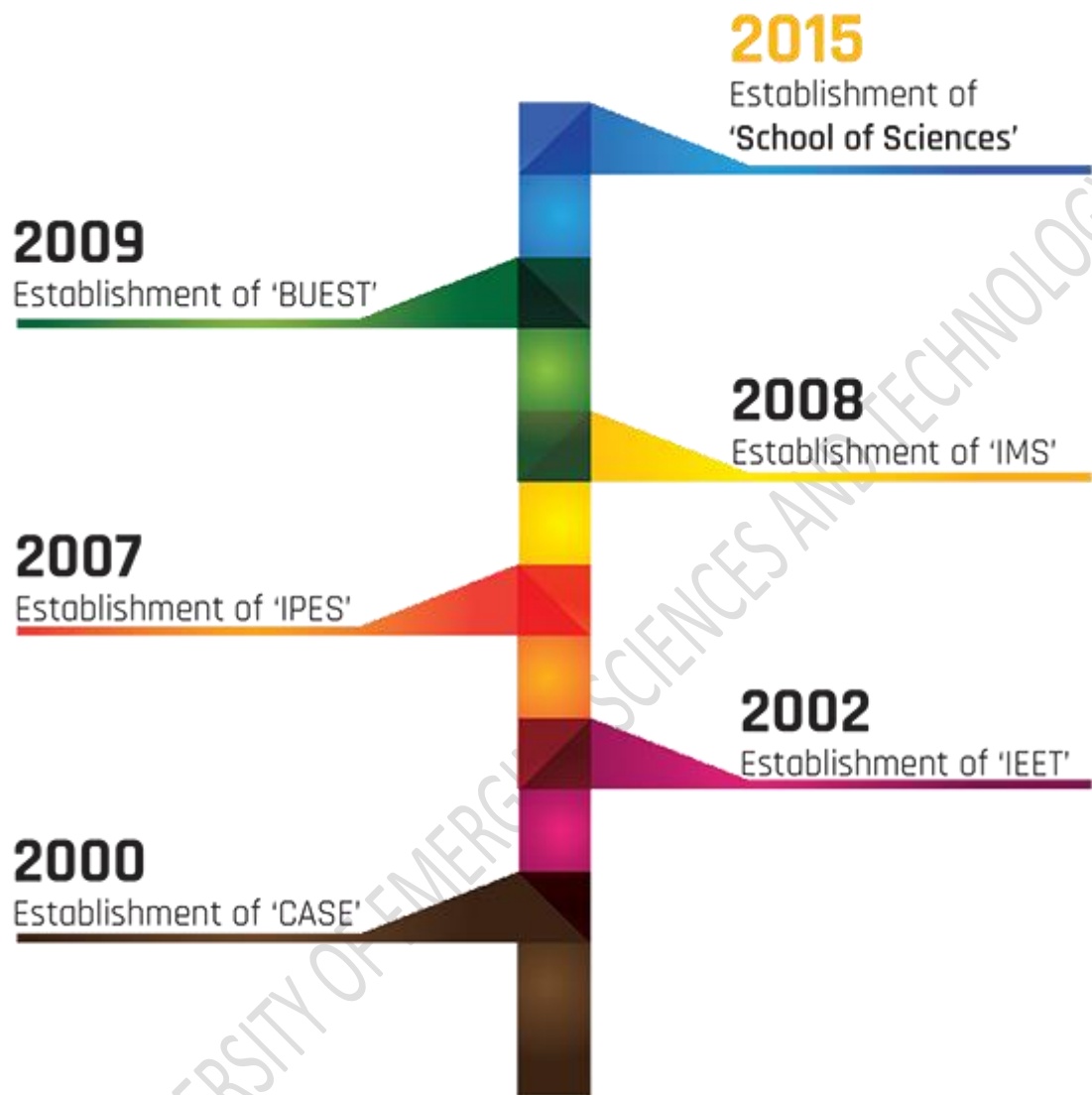
- B.Tech (E.E.), NIT Allahabad and MBA, XLRI Jamshedpur
- Managing Director in Tata Group of Company during 2004 -2013
- Active sportsman & played at National & International levels

### **ABOUT VICE CHANCELLOR**

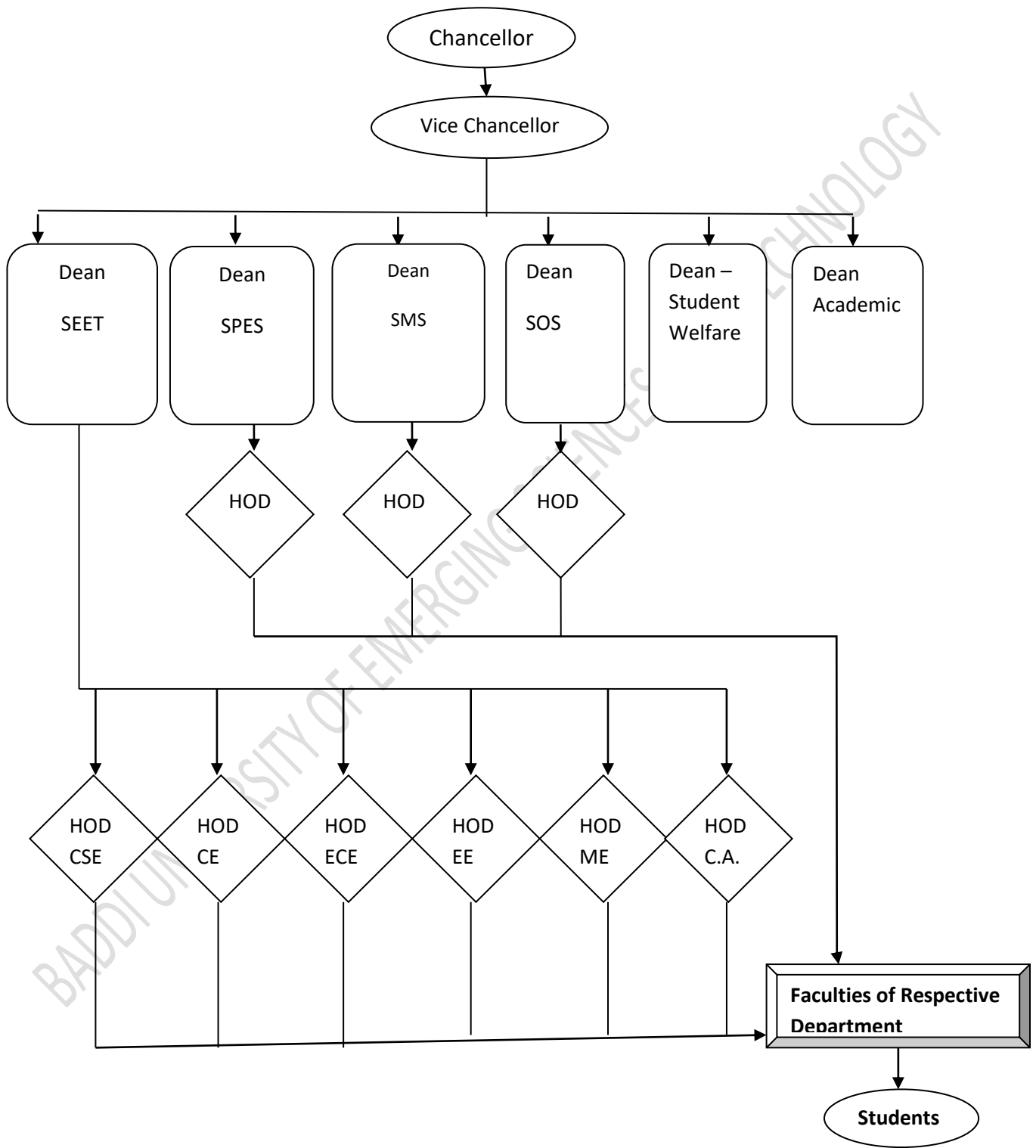
#### **Prof. (Dr.) Shakti Kumar**

- Ph.D. (ECE), NIT Kurukshetra
- M.S. (Electronics & Control), BITS Pilani
- Completed two MHRD and DRDO funded research projects and published Approx 200 research articles, 7 book chapters and a patent
- Awarded with “Sir Thomas Ward Memorial Prize” in 2006 & 2010

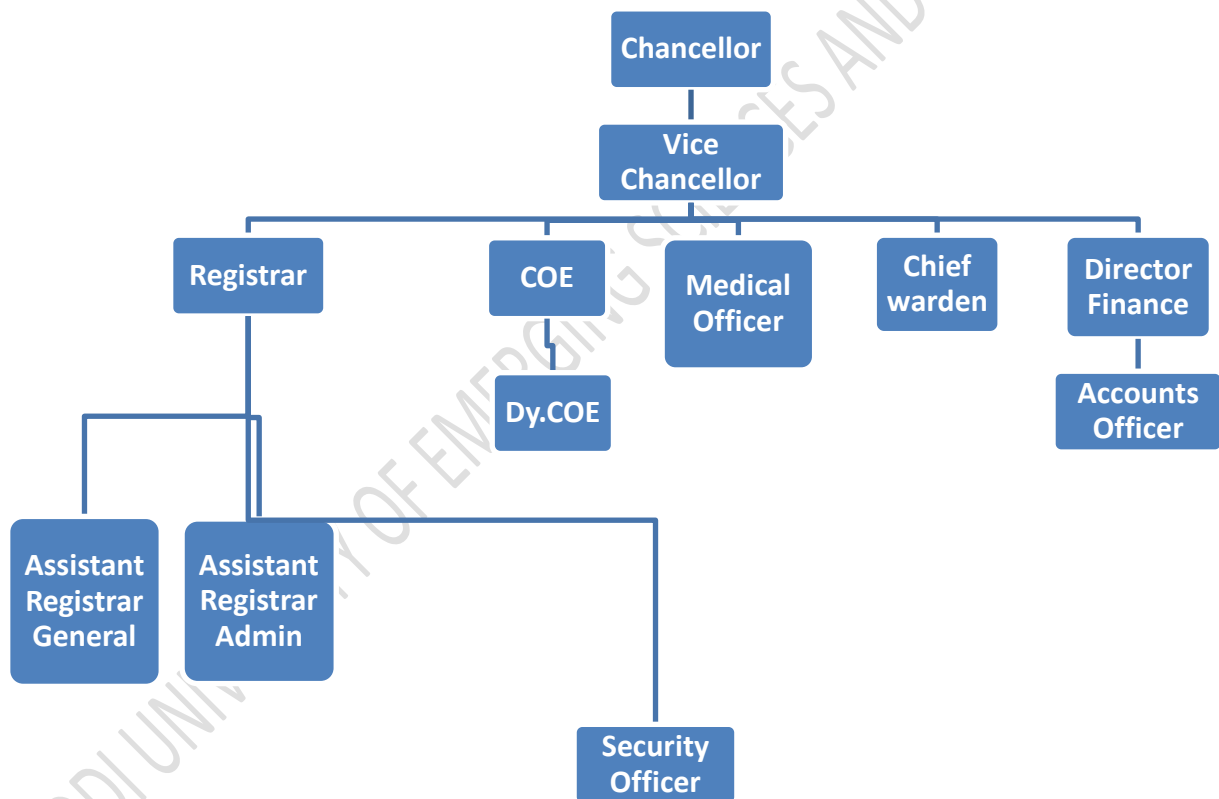
## PROGRESS CHART



## ACADEMIC STRUCTURE



## ADMINISTRATIVE STRUCTURE



## GOVERNING BODY

Mr. Pradeep Srivastava – Chancellor (BUEST)	Chairman
Mr. Pawan Kumar Agarwala – Vice-Chairman (Sponsoring Body)	Member
Mr. Gaurrav Ram Jhunjunwala – Member Secretary (Sponsoring Body)	Member
Prof.(Dr.) Shakti Kumar – Vice-Chancellor (BUEST)	Member
Mr. Ajay Bansal	Member
Mr. K.D. Shreedhar	Member
Mr. Ajay Shrivastava	Member
Lt. Gen (Retd.) Dr. D.D. S. Snadhu	Member
Sh. J.R. Gazta, I.A.S (Retd.) – (Govt. nominee)	Member
Dr. R. L Gupta Member – (Govt. nominee)	Member
Sh. Karan Singh – Member, State Legislative Assembly (Banjar)	Member
Sh. Ravi Thakur – Member, State Legislative Assembly (Lahaul & Spiti)	Member
Dr. Arvind Singh – Registrar (BUEST)	Member Secretary

## STUDENTS ENROLLED

Course	Sanctioned			Admitted			Sanctioned
	2013-14	2014-15	2015-16	2013-14	2014-15	2015-16	2016-17
ECE	180	180	120	62	36	28	60
CSE	180	120	120	49	63	85	120
IT	60	60	-	-	-	-	-
ME	240	180	180	206	171	58	120
EE	120	120	60	47	35	21	60
CE	240	120	120	121	104	58	120
MCA	60	60	60	07	16	-	60
MBA	120	120	120	42	48	62	120
B.Pharm	60	60	60	38	60	60	60
M.Pharm Pharmaceutics	18	18	18	2	13	10	18
M.Pharm(Pharmaceu- Chemistry	-	-	18	-	-	-	18
<b>M.Tech (Modular) CSE</b>	30	18	-	8	2	-	-

ME	30	18	-	1	1	-	-
ECE	30	18	-	11	2	-	-
EE	30	18	-	7	2	-	-
<b>M.Tech (Regular)</b>	18	18	18	-	6	9	18
EE, P. E. & Drives							
CSE, Softw.Engg	18	18	18	-	10	8	18
ECE							18
ME, Robotics & Automation	18	18	18	-	03	8	18
ME, Produ. Engg.	18	18	18	-	06	10	18
CE ,Struct. Engg	18	18	18	-	4	12	18
BCA	60	60	60	08	15	14	60
B.Com (Hon)	60	60	60	0	15	12	30
B.Sc. (Med.)	60	30	30	0	23	-	-
B.Sc.(Non Med.)	60	30	30	06	16	9	30
B.Sc.(Chem)Hons			30			-	30
B.Sc. MTR	60	30	30	-	-	-	-
BBA (Hon)	60	60	60	11	18	25	60
MA in English			30			-	-
MA in Social work			30			-	-
MJMC	30	-	-	0	-	-	-
M.Sc Math	30	-	30	0	-	-	-
M.Sc Chem	30	30	30	18	30	30	40
M.Sc in Pharmaceut Chemistry			-			-	18
MTA	40	-	-	0	-	-	-
<b>Ph.D</b>			-				2
Chemistry							
CE			3				2
CSE			2				3
ECE			2				2
EE			2				2
ME			2				-
Mgt.			2				3
Pharmacy			4				6
Total	1902	1500	1392	652	699	519	1152

## LIST OF FACULTIES

School of Engineering & Emerging Technologies			
S. NO.	Name	Designation	Specialisation
1	Dr. Vinay Bhatia	Professor	Electronics & Communication Engineering (ECE)
2	Mr. Harbinder Singh	Asstt. Professor	Electronics & Communication Engineering
3	Mr. Anshul Kumar	Asstt. Professor	Electronics & Communication Engineering
4	Ms. Neha Sharma	Asstt. Professor	Electronics & Communication Engineering
5	Ms. Neerav Mehan	Asstt. Professor	Electronics & Communication Engineering
6	Mr. Sanjeev Kumar	Asstt. Professor	Electronics & Communication Engineering
7	Mr. Manoj Thakur	Asstt. Professor	Electronics & Communication Engineering
8	Ms Chandni	Asstt. Professor	Electronics & Communication Engineering
9	Mr. Kuldeep Singh	Asstt. Professor	Electronics & Communication Engineering
10	Mr. Tejinder Singh	Lecturer	Electronics & Communication Engineering
11	Ms. Kamna Kohli	Asstt. Professor	Electronics & Communication Engineering
12	Ms. Ramanpreet Kaur	Asstt. Professor	Electronics & Communication Engineering
13	Mr. Amit Kapoor	Asstt. Professor	Electronics & Communication Engineering
14	Ms Navdeep Kaur	Asstt. Professor	Electronics & Communication Engineering
15	Ms Charu Sharma	Asstt. Professor	Electronics & Communication Engineering
16	Mr. Narender Kumar	Lecturer	Electronics & Communication Engineering
17	Ms Anjali Bharti	Asstt. Professor	Electronics & Communication Engineering
18	Dr. Jaydeep Chakravorty	Associate Prof./ HOD	Electrical Engineering

19	Dr. Sandeep Chakravorty	Prof.	Electrical Engineering
20	Mr. Narinder Sadana	Associate Professor	Electrical Engineering
21	Mr. Ajay Kumar	Associate Professor	Electrical Engineering
22	Ms. Geena Sharma	Asstt. Professor	Electrical Engineering
23	Mr. Ishan Thakur	Asstt. Professor	Electrical Engineering
24	Mr. Abhinav Dogra	Asstt. Professor	Electrical Engineering
25	Ms Arunpreet Kaur	Asstt. Professor	Electrical Engineering
26	Ms Jyoti Saraswat	Asstt. Professor	Electrical Engineering
27	Mr. Gagandeep	Asstt. Professor	Electrical Engineering
28	Ms Manavi Sharma	Asstt. Professor	Electrical Engineering
29	Ms Aditi Sharma	Asstt. Professor	Electrical Engineering
30	Ms. Ruchika	Assistant Professor	Electrical Engineering
31	Mr. Ishbir Singh	Associate Professor	Mechanical Engineering
32	Mr. Gaurav Sachdeva	Asstt. Professor	Mechanical Engineering
33	Ms. Sushma Singh	Asstt. Professor	Mechanical Engineering
34	Mr. Manish Singh Dharmshaktu	Asstt. Professor	Mechanical Engineering
35	Mr. Gaurav Chigal	Asstt. Professor	Mechanical Engineering
36	Mr. Ashok Kumar	Asstt. Professor	Mechanical Engineering
37	Mr. Khushmeet Kumar	Asstt. Professor	Mechanical Engineering
38	Mr. Sukhwinder Kumar	Asstt. Professor	Mechanical Engineering
39	Mr. Ankur Kalia	Asstt. Professor	Mechanical Engineering
40	Mr. Gaurav Soni	Asstt. Professor	Mechanical Engineering
41	Mr. Sanjay Kumar	Asstt. Professor	Mechanical Engineering
42	Mr. Jatesh Kumar	Asstt. Professor	Mechanical Engineering

43	Mr. Anil Baweja	Asstt. Professor	Mechanical Engineering
44	Mr. Mahesh Kumar	Asstt. Professor	Mechanical Engineering
45	Mr. Vivek Chauhan	Asstt. Professor	Mechanical Engineering
46	Mr. Navdeep Sandhu	Asstt. Professor	Mechanical Engineering
47	Mr. Kamaljit Singh	Asstt. Professor	Mechanical Engineering
48	Mr. Ishavneet Singh	Asstt. Professor	Mechanical Engineering
49	Mr. Vibhu	Asstt. Professor	Mechanical Engineering
50	Mr. Ravinder Kumar	Asstt. Professor	Mechanical Engineering
51	Mr. Gurpreet Singh	Asstt. Professor	Mechanical Engineering
52	Mr. Devashish Sharma	Asstt. Professor	Mechanical Engineering
53	Mr. Mohit Vasudeva	Asstt. Professor	Mechanical Engineering
54	Mr. Krishan Kumar	Asstt. Professor	Mechanical Engineering
55	Mr. Hardeep Singh	Asstt. Professor	Mechanical Engineering
56	Ms Neha Sharma	Asstt. Professor	Mechanical Engineering
57	Mr. Rahul Bhardwaj	Asstt. Professor	Mechanical Engineering
58	Mr. Vijender	Asstt. Professor	Mechanical Engineering
59	Mr. Vivek Kumar	Asstt. Professor	Mechanical Engineering
60	Mr. Puneet Kumar	Asstt. Professor	Mechanical Engineering
61	Mr. Nishant	Asstt. Professor	Mechanical Engineering
62	Mr. Kamaldeep Chugh	Lecturer	Mechanical Engineering
63	Dr. Ajay Goel	Professor & HOD	Computer Science & Engineering
64	Mr. Aman Kaushik	Asstt. Professor	Computer Science & Engineering
65	Mr. Parveen Thakur	Asstt. Professor	Computer Science & Engineering
66	Mr. Rohit Handa	Asstt. Professor	Computer Science & Engineering
67	Mr. Parul Preet Singh	Asstt. Professor	Computer Science & Engineering

68	Ms Ruchika Sharma	Asstt. Professor	Computer Science & Engineering
69	Ms Shaina Pundir	Asstt. Professor	Computer Science & Engineering
70	Ms Priya Arora	Asstt. Professor	Computer Science & Engineering
71	Mr. Abhishek Tomar	Asstt. Professor	Computer Science & Engineering
72	Ms. Anchal Bajaj	Asstt. Professor	Computer Science & Engineering
73	Ms. Nancy Sehgal	Asstt. Professor	Computer Science & Engineering
74	Ms. Priyanka Sharma	Asstt. Professor	Computer Science & Engineering
75	Mr. Amar Singh	Asstt. Professor	Computer Science & Engineering
76	Ms. Tanvi Arora	Associate Professor	Information Technology
77	Ms. Aditi Kumar	Asstt. Professor	Information Technology
78	Ms. Shalini Chauhan	Sr. Lecturer	Information Technology
79	Ms Rachna Sharma	Asstt. Professor	Information Technology
80	Ms. Suman Lata	Asstt. Professor	Information Technology
81	Mr. Abhishek Gupta	Asstt. Professor	Information Technology
82	Ms Pallavi Jindal	Asstt. Professor	Information Technology
83	Ms Nikita	Asstt. Professor	Information Technology
84	Mr. Rajesh Kumar Chaudhary	Asstt. Professor	Information Technology
85	Ms. Mrinal Sharma	Asstt. Professor	Computer Application
86	Mr. Rishav Garg	Associate Prof.	Civil Engineering
87	Mr. Devinder Sharma	Associate Professor	Civil Engineering
88	Dr. Rinku Walia	Associate Professor	Civil Engineering
89	Mr. Sushant Gajbhiya	Asstt. Prof.	Civil Engineering
90	Mr. Amit Sindher	Asstt. Prof.	Civil Engineering
91	Mr. Mani Mahesh	Asstt. Prof.	Civil Engineering
92	Mr. Chetan Khajuria	Asstt. Prof.	Civil Engineering

93	Mr. Girish Sharma	Lecturer	Civil Engineering
94	Mr. Ankush Tanta	Lecturer	Civil Engineering
95	Mr. Sandeep Singh	Lecturer	Civil Engineering
96	Mr. Gurvinder Singh	Asstt. Prof.	Civil Engineering
97	Mr. Abhishek Gupta	Asstt. Prof.	Civil Engineering
98	Mr. Gaurav Dhiman	Asstt. Prof.	Civil Engineering
99	Mr. Anil Mittal	Assoc. Prof.	Civil Engineering
100	Mr. Kaiten	Lecturer	Civil Engineering
<b>SCHOOL OF SCIENCES (Applied Sciences &amp; Humanities )</b>			
101	Dr. Geetanjali Sharma	Associate Professor	Chemistry
102	Dr. Vijender Singh	Associate Prof.	Physics
103	Ms. Nidhi Gupta	Asstt. Professor	Chemistry
104	Mr. Vivek Chaudhary	Asstt. Professor	Chemistry
105	Ms. Anu Kapoor	Asstt. Professor	Physics
106	Mr. Manoj Saini	Asstt. Professor	Physics
107	Ms. Tanu Priya	Asstt. Professor	Physics
108	Ms Harpreet Kaur	Asstt. Professor	Chemistry
109	Ms. Akansha Vashisht	Lecturer	English
110	Ms. Kumari Anupam	Lecturer	Mathematics
111	Ms. Dolly Prabhakar	Lecturer	Chemistry
112	Ms Suchi Sharma	Lecturer	Chemistry
113	Ms Nisha Kumari	Lecturer	Mathematics
114	Mr. Deepak Verma	Asstt. Professor	Mathematics
115	Dr. Pallavi Bhardwaj	Asstt. Professor	Communication Skills

116	Dr. Pooja Chauhan	Asstt. Professor	Physics
117	Mr. Gourav Gupta	Asstt. Professor	Mathematics
118	Ms Renu Bala	Asstt. Professor	Mathematics
<b>SCHOOL OF MANAGEMENT STUDIES</b>			
119	Dr. George Thomas	Prof. & Dean	Marketing
120	Mr. Rajender Guleria	Professor	
121	Mr. Avneesh Chandra Kaushik	Asstt. Professor	Mktg./Finance
122	Ms. Bhawna Prashar	Asstt. Professor	Mktg./HR
123	Mr. Rajeev Kumar	Asstt. Professor	Mktg./HR
124	Ms. Tamanna	Asstt. Professor	IT
125	Ms Varsha Gupta	Asstt. Professor	Finance/Mktg.
126	Mr. Sandeep Bana	Asstt. Professor	Pharmaceutical Management
127	Dr. Poonam Kumari	Asstt. Professor	Commerce
128	Ms Sonu Kumari	Asstt. Professor	HR/Mktg.
129	Ms Ujjal Sandhu	Asstt. Professor	HR/Mktg.
130	Dr. Nisha	Asstt. Professor	HR/Mktg.
131	Ms Alka Sood	Asstt. Professor	HR/Finance
132	Ms Reetu	Asstt. Professor	Commerce
133	Ms Kanika Sharma	Asstt. Professor	HR
134	Ms Viveka Attri	Asstt. Professor	HR
135	Ms Saruchii	Lecturer	Finance
<b>SCHOOL OF PHARMACY &amp; EMERGING SCIENCES</b>			
136	Dr. Tilak Raj Bhardwaj	Professor/ Dean SPES	Pharmaceutical Chemistry/Medicinal Chemistry
137	Dr. Saahil Arora	Professor	Pharmaceutics

138	Dr. Nitin Verma	Associate Professor	Pharmacognosy
139	Dr. Arti R. Thakkar	Associate Professor	Pharma Quality Assurance
140	Ms. Parul Sood	Asstt. Professor	Pharmacognosy
141	Ms. Tapaswi Rani Dash	Asstt. Professor	Pharmaceutics
142	Dr. Ravinesh Mishra	Associate Professor	Pharmaceutical Chemistry
143	Ms Sawati Sharma	Asstt. Professor	
144	Mr. Shubham Goyal	Asstt. Professor	Pharmacology
145	Ms Suchika Sharma	Asstt. Professor	Pharmaceutics
146	Ms Deepdarshan Kaur	Asstt. Professor	
147	Ms Chand Kaur	Asstt. Professor	Pharmacology
148	Mr. Sahil Kumar	Asstt. Professor	Pharma Chemistry
149	Mr. Nitin Sharma	Asstt. Professor	Pharmaceutics Analysis
150	Ms Gurpreet Kaur	Asstt. Professor	Pharmacognosy
151	Ms Swati	Asstt. Professor	Pharmaceutics
152	Mr. Bhartendu Sharma	Asstt. Professor	Pharmaceutical Chemistry

### IMPORTANT FUNCTIONARIES

Sr. No	Name	Designation	Contact No.	Email-id
1	Sh. Gaurrav Ram Jhunjhunwala	Secretary Governing Body	<b>01795 247353</b> Ext. 279	<a href="mailto:Gaurravrj24@gmail.com">Gaurravrj24@gmail.com</a>
2	Sh. Pradeep Srivastava	Chancellor	+9184201364 50	<a href="mailto:chancellor@baddiuniv.ac.in">chancellor@baddiuniv.ac.in</a>
3	Prof. (Dr.) Shakti Kumar	Vice-Chancellor	01795-247882, <b>01795 247353</b> Ext. 275	<a href="mailto:vc@baddiuniv.ac.in">vc@baddiuniv.ac.in</a>
4	Dr. Arvind Singh	Registrar	<b>01795 247353</b> Ext. 214, 01795-247884	<a href="mailto:registrar@baddiuniv.ac.in">registrar@baddiuniv.ac.in</a>
5	Sh. Narinder Sadana	Controller of Exams	<b>01795247353</b> Ext. 224	<a href="mailto:coe@baddiuniv.ac.in">coe@baddiuniv.ac.in</a>
6	Sh. G.S. Chadha	Director, Finance	<b>01795 247353</b> Ext. 203	<a href="mailto:director.finance@baddiuniv.ac.in">director.finance@baddiuniv.ac.in</a>

## COURSES APPROVED, ELIGIBILITY & FEE STRUCTURE

SCHOOL OF ENGINEERING & EMERGING TECHNOLOGIES (SEET)			
Courses		Eligibility Criteria	Fee Structure
B Tech	ECE	Candidates must have passed 10*2 examinations or its equivalent from a recognized Board/ University with Physics and mathematics as compulsory subjects along with any one of the optional subjects: Chemistry/ Biology, Computer Science and Bio Technology. Admissions in the first instance will be made o the basis of JEE Mains Score.	1,10000
	CSE		
	IT		
	ME	Remaining vacant seats will be filled in the basis merit in qualifying examinations approved by the Government.	
	EE		
	CE		
Lateral Entry available for B.Tech			
MCA		Candidates must have passed graduation from a recognised University with mathematics in 10+2. .Merit as per the marks obtained in qualifying examination.	60000
BCA		Candidates must have passed 10+2 examination or its equivalent from a recognised University/ Board .Merit as per the marks obtained in qualifying examination.	30000
M.tech	Robotics & Automation(ME)	Gate Score  Remaining Vacant seats will be filled up on the basis of merit in qualifying examination.	60000
	Electronics & Communication Engg(ECE)		
	Software Engineering (CSE)		
	ME, Produ. Engg.		
	CE ,Struct. Engg		
	Structural Engineering		
Ph. D	Civil EGINEERING	Seats and eligibility as per the approval from statutory body	
	CSE		
	ECE		
	EE		
	ME		

<b><u>SCHOOL OF SCIENCES (SOS)</u></b>		
B.Sc.(Non Med.)	<ul style="list-style-type: none"> <li>For B.Sc.(Non-Medical), candidates must have passed 10+2 examination or its equivalent from a recognized Board/University with Physics &amp; Mathematics as compulsory subjects along with any one of the optional subjects: Chemistry/Biology/Computer Sciences/Bio-Technology.</li> <li>Admissions will be made on the basis of 10+2 examination Merit.</li> </ul>	30000
B.Sc.(Chem)Hons	Candidate must pass 10+2 examination or its equivalent from recognized Board/University with Chemistry as compulsory subject along with any one of the optional subject: Physics/ Mathematics/ Biology/Computer Sciences/Bio-technology. Admissions will be made on the basis of 10+2 examination Merit	
M.Sc Chem	For M.sc Chemistry, candidates must have passed B.Sc medical and Non Medical with chemistry as one of the subject from recognized University.	35000
M.Sc Maths	B.Sc in Maths.	35000
<b><u>SCHOOL OF MANAGEMENT STUDIES (SMS)</u></b>		
B COM	Candidates must have passed 10*+2 examination or its equivalent from a recognized University/ Board.	25000
BBA	Admissions will be made on basis of 10+2 examination & Personal interview	30000
MBA	Candidates must have completed graduation in any stream from any recognized university. Merit list will be prepared on the basis of weightage assigned to 10 <sup>th</sup> , 10+2, Graduation and inference Test (CAT/AIMAT/HP-CMAT etc) marks and performance in group discussion & personal interview. Remaining vacant seats will be filled based upon the merit in the qualifying examinations.	100000
Ph.D	Seats & Eligibility as per the approval from statutory body	

<b>School of Pharmacy &amp; Emerging Sciences(SPES)</b>		
B. Pharmacy	Candidates must have passed 10*2 examination or its equivalent from a recognized Board/ University with Physics and Mathematics as compulsory subjects along with any one of the optional subjects: Chemistry/ Biology, Computer Science and Bio Technology. Merit in state Government Entrance Test/BUEST Entrance Test. Remaining vacant seats will be filled based upon the merit in the qualifying exams.	80000
M. Pharmacy	Candidates must have completed graduation (B.Pharm.) from any recognized University, with 50% marks	1,20000
Ph.D	Seats & Eligibility as per the approval from statutory body	

### **STRENGTHS OF THE UNIVERSITY**

- The Legacy of IEET is being carried forward by buest.
- State of the art labs, workshops & virtual labs sharing with us.
- Industrial acclimatization through corporate guest lectures & industrial visits.
- Exclusive arena of learning at buest library with latest books & journals.
- Attractive scholarships over Rs. 1 crore per annum based upon merit as well as merit cum means.
- Extensive pre placement training & excellent placements.
- Free Education for girls under 'Betiyon Ki Bari' scholarship scheme.
- Safe and secure environment.

## **SCHOOL OF ENGINEERING AND EMERGING TECHNOLOGIES**

School of Engineering & Emerging Technologies earlier famous with the name Institute of Engineering & Emerging Technologies (IEET) was established in the year 2002 by a society named Center for Advanced Studies in Engineering (CASE), with a deep commitment to promote and propagate quality technical education.

The School has been offering following under graduate, post graduate & Doctoral courses

### **B.Tech.**

- Civil Engineering
- Computer Science Engineering
- Electronics & Comm. Engineering
- Electrical Engineering
- Mechanical Engineering

### **M.Tech.**

- Robotics & Automation (ME)
- Power Electronics & Drives (EE)
- Software Engineering (CSE)
- Structural Engg. (CE)
- Production Engg. (ME)

### **Ph.D.**

- Civil Engineering
- Computer Science Engineering
- Electronics & Comm. Engineering
- Electrical Engineering
- Mechanical Engineering

## **CIVIL ENGINEERING DEPARTMENT**

### **PROFILE**

Civil Engineering is the art of directing the great sources of power in nature for the use and convenience of man; being that practical application of the most important principles of natural Philosophy which has in a considerable degree realized the anticipations of Bacon and Changed the aspect and state of affairs in the whole world. It refers to the practice of organizing the design and construction of any artifice which transforms the physical world around us to meet some recognized need.

Department of Civil Engineering, established in the year 2008, under the aegis of Baddi University of Emerging Sciences and Technology, Baddi can boast of its state of art Infrastructure, well equipped laboratories, an exclusive computer lab with latest Civil Engineering software's and not to mention the vastly experienced faculty having international exposure to their credit. The aim of the department is to impart quality education and groom budding Civil Engineers to be effective contributor to the society, nation and the world as a whole. At present department runs four year program leading to the award of bachelor's degree in Civil Engineering and has started M.Tech program in Structure Engineering.

### **ACADEMIC PROGRAMMES**

- **Department of Civil Engineering** offers a full-time, four-year B.Tech program. This course inculcates in students the skills of management through a real-world curriculum in order to prepare them for managing every aspect of Civil Engineering, and for its growth and stability, depending on the overall goals.
- **Master of Technology** offers a full time Post graduation Program Structural Engineering
- **Ph.D.** Regular

### **LABORATORIES/FACILITIES**

- **Structure Analysis Lab.:** Civil Engineering is basically associated with the analysis of structural components like beams, columns etc. These components are tested in the SA-Lab.
- **Soil Mechanics Lab.:** Foundation of the building is laid over the soil which bears the complete load of all the components of the building. Bearing capacity of the soil is tested in the soil mechanics lab.
- **Concrete Lab.:** Concrete is the core material for the construction of a building which is test in the Concrete lab. For finding out its various mechanical properties.

- **Highway Engineering Lab.:** The Highway Engineering Laboratory is a teaching and research laboratory equipped to conduct standard tests for asphalt pavement design and paving materials for undergraduate teaching, as well as advanced research oriented experiments for assessing the engineering properties and behaviors of new paving materials. It is also well equipped to support research activities in the area of nondestructive field evaluation of in-service road and airport pavements. In addition, the laboratory carries a good collection of in-house developed software for closed-form analysis of pavement responses under traffic and thermal loadings, pavement properties back calculation, and laboratory and field permeability determination of porous pavement materials.
- **Surveying Lab.:** The Surveying Lab is equipped with the instruments and tools that students use throughout the surveying course. Students learn techniques for gathering field data with both traditional and modern instruments and demonstrate their proficiency on weekly lab exercises and a comprehensive semester project and final exam. Each lab group - typically three students has a dedicated set of instruments to use, including auto level, theodolite, and total station. Each group also has level rods, tripods, tape measures, chaining pins, and other common surveying tools and ancillary equipment.
- **Fluid Mechanics Lab.:** The Fluid Mechanics Laboratory is an integral part of the Civil Engineering Department and Fluid Mechanics Lab is to run demonstrative experiments to Civil and Mechanical students. The Fluid Mechanics course is an introduction to the mechanics of incompressible and compressible fluids. It covers the principles and more important theories of modern fluid mechanics. The Fluid Mechanics Laboratory course is an indispensable supplement to the theory. It covers measuring devices and techniques, error analysis in experimental works and analysis of assumptions in the theory of fluid mechanics.
- **Civil Software Lab.:** This lab deals with the software's associated with Civil Engineering. It is having STAAD Pro. Vi8 Version and AutoCAD Latest Version for the advanced learning of students.

## ACADEMIC ACHIEVEMENTS

- Submission of thesis of Ph.D by the Er. Rishav Garg-HOD-CE & Er. Devinder Sharma in June, 2016.
- M.Tech. Thesis of Er. Ankush Tanta have been completed and viva is over. This thesis was guided by Er. Devinder Sharma
- Consultancy work worth Rs 55000/- for "Gurmat Prachar Trust H.P"- Design of Gurudwara Nanak Darbar has been completed in all respects.

## NATIONAL CONFERENCE/WORKSHOP/SEMIARS

### National Conference

- A National conference entitled “Innovations in Civil & Mechanical Engineering” held on 12<sup>th</sup> May 2016.

### Workshops/Seminars/Invited Talks

- Civil Engineering Department hold an ICT based five days short term course on “Green & Energy Efficient Buildings” organized by NITTTR, Chandigarh in March, 2016.
- National Conference on "Recent Trends Environment, Science & Technology" At Rayat Bhara University on dated. 11/03/16 was attended by Er. Rishav Garg-HOD-CE.
- Workshop on smart cities by NITTTR, Chandigarh, attended by Dr. Rinku Walia from 4<sup>th</sup> Jan. 2016 to 16<sup>th</sup> Jan. 2016.
- 15 day workshop on **AutoCAD** was organized by Civil Engineering Department.
  - Er Sandeep Charak-Assistant Professor (Coordinator)

### Invited Talk

Date	Guest Speaker	Designation	Organization	Topic
08/06/16	Er.Ashok Chauhan	Chief Engineer	HP-PWD Shimla	Way to Get Success in Life
08/06/16	Er. Anil Thakur	-----	M.tech IIT Delhi, Gate 2014 AIR-259, RPSC rank 39	How to Crack Competitive exams

### INDUSTRIAL VISITS

Date	Name of Company	Class	Semester	Faculty Accompanied
09/09/16	Effluent Treatment Plant, Baddi.)	B.Tech	3CE1	Er. Adarsh Thakur
10/09/16	Ultratech RMC Plant Mohali (Punjab)	B.Tech	3CE2	Er. Gaurav Dhiman
01/10/15	Bhakra Nangal Dam	B.Tech	5CE1	Er. Girish Sharma
01/10/15	Bhakra Nangal Dam	B.Tech	5CE2	Er. Amit Sindher

16/04/16	NITTTER, Chandigarh	B.Tech, Mtech	8CE1,2 <sup>nd</sup> & 4 <sup>th</sup>	Er. Devinder Sharma
17/04/16	NITTTER, Chandigarh	B.Tech	8CE2	Er. Devinder Sharma

## RESEARCH ACTIVITIES/PAPER PUBLISHED

Academic paper (also called scholarly paper), which is published in academic journals and contains original research results or reviews existing results or show a totally new invention represents the author's opinion. Faculty members of CE department had published many research papers in national and international conferences, and journals. The details of publications by CE faculty members are as follows:

### Dr. Rinku Walia

#### Research Project:

- Bench Scale reactor of artificial recharge system sponsored by Institution of Engineers, Kolkata, in 2016.

### Er. Devinder Sharma

#### Paper Published

- Utilisation of waste foundry slag and alccofine in developing high strength Concrete In Int. J. Electrochem. Sci., 11 (2016) 3190 - 3205
- Comparative study of mechanical properties of high strength concrete using waste foundry slag and alccofine *In concrete research letter, Vol.7 (1) – March 2016*
- Prediction of High Compressive Strength of Concrete using waste foundry slag and alccofine by NDT In *International Journal of Engineering Research & Technology (IJERT)* ISSN: 2278-0181 IJERTV5IS020361 Vol. 5 Issue 02, February-2016
- Performance evaluation of RCC Structures by NDT In *International journal of new innovations* 2016;

### Er. Rishav Garg

#### Paper Published

- Er Rishav Garg Published Paper in International Conference, Titled “Impact of Stubble Burning on the ambient air quality”.
- “Split Tensile Strength of Cement Mortar in Corpora ting Micro & Nano Silica at early ages” *International Journal of Engineering Research & Technology(IJERT)* ISSN: 2278-0181 IJERTV5IS020361 Vol. 4 Issue 02, February-2016

- “Strength durability & micro structure study of Cement Mortar in Coporating Micro & Nano Silica” in *International Journal of Electro Chemical Science* Int. J. Electrochem. Sci.,11(2016)3697 -3713

**Er. Amit Sindher**

**Paper Published**

- Forecasting of NO<sub>2</sub> over Punjab region by time series modeling and spatial distribution *International Journal of New Innovations*, ISSN No. 22774459

**Er. Sushant Gajibhiye**

**Paper Published**

- Study & Analysis of Traffic Volume of NH-21(A) in *International Journal of New Innovations* ISSN No. 22774459

**Er. Girish Sharma**

**Paper Published**

- Effect of Municipal Solid Waste Bottom Ash On The Property (Compressive Strength) Of Concrete As Partial Replacement Of Cement in *International Journal of New Innovations* ISSN No. 22774459

**Er. Abhishek Gupta**

**Paper Published**

- Determine the mechanical property of concrete by using steel fiber and polyester in *International Journal of New Innovations* ISSN No. 22774459

**Er. Ankush Tanta**

**Paper Published**

- Utilization of castor polyurethane in developing lightweight concrete in *International Journal of New Innovations* ISSN No. 22774459

**COMMEMORATIVE EVENTS (Celebrations)**

- Civil Engineering Department has celebrated Science Day as “Technophilia-16” on 25/2/16 in which various technical literary, art and cultural events were performed.

- 7th Civil Engineering Day was celebrated on 1st Sept. 2015 to mark 7 glorious and successful years of Existence of Civil Engineering Department in BUEST. The celebrations included Technical and Cultural Events.
- Technical Events:
- Technical Quiz
- Group Discussion
- Bridge Making
- Structure Making Competition

The cultural events began with the Lighting of Lamp by Hon'ble VC Sir, Guest of the eve. Students Presented songs, Stand ups and Play on Current Issue of the Society. The event ended with Motivating words and Prize Distribution Ceremony by Hon'ble VC Sir.

#### **MERIT LIST OF STUDENTS**

<b>S.No.</b>	<b>Name of Student</b>	<b>BUEST ID</b>	<b>CGPA</b>	<b>Position</b>
1	Sahil Chandel	11UCE133	9.08	Ist
2	Bhavika Chawla	11UCE046	8.87	IIInd
3	Prerna Gautam	11UCE057	8.68	IIIrd

#### **PLACEMENT**

<b>S.No.</b>	<b>Name of Student</b>	<b>Name of Company</b>
1	Mr. Rahul Thakur	Mahindra Susten
2	Mr. Mayank Kumar	JMC projects [Mumbai] Ltd.
3	Mr. Nishant Bhardwaj	JMC projects [Mumbai] Ltd.
4	Mr. Apoorav Sood	JMC projects [Mumbai] Ltd.
5	Mr. Manik Bhardwaj	JMC projects [Mumbai] Ltd.

#### **OTHER ACTIVITIES**

- Special Drive was initiated for 8<sup>th</sup> Semester students. The drive is to focus on fundamental concepts in core subjects. The senior faculty is conducting the classes for the special drive. This practice has been undertaken by the department with a sole objective to enhance the technical skills and pre placement capabilities of the students.

- Mock Test was conducted by Engineers Carrier Group (16.10.2015). Free coaching (GATE/IES) will be given to topper of the University among 4000 students from other Universities and Institutes.
- **The Gate and Wall Painting were also inaugurated by V.C Sir. All the activities were Guided and Monitored by Prof (Dr) Ajay Goyal-HoD-CE.**
- The students of Civil Engineering Department won the "Idea Indagar"- Technical Quiz Conducted by Idea Factory (28.10.2015)".
- Inauguration of Sun Clock Made by Students of Civil Engg by V.C Sir (24.11.2015). The activity was coordinated by Er Ankush Tanta.
- The Gate and Wall Painting were also inaugurated by V.C Sir. All the activities were Guided and Monitored by Prof (Dr) Ajay Goyal- HoD-CE.
- Students of Civil Engg participated in All- India Quiz on "Disaster Management" Conducted by CCET Sec-26, Chandigarh on 13 Oct 15. One of the four teams reached in top 10 among the 80 teams which had participated
- Mr. Rahul (12UCE089) was in Delhi to Represent BUEST as student Ambassador for Bentley (23.11.2015).
- Mr. Rahul Thakur student of Civil Engg. Department was selected by Mahindra Susten Company.
- Civil Club is Organising various events as
  - C-Tech Club- Tech Trivia
  - Creators- Kaksh Mandana
  - Nirmana- Social Awareness (Nukad Natak)
- Mr. Chirag Chawla student of 8<sup>th</sup> semester has placed in Era construction.
- Following students are recruited by JMC projects [Mumbai] Ltd. of B.Tech. Civil Engineering department:-
  - Mr. Mayank Kumar
  - Mr. Manik Bhardwaj
  - Mr. Apoorav Sood
  - Mr. Nishant Bhardwaj
- Football team of Civil Engineering Department has won inter branch football championship of BUEST.

## **ELECTRICAL ENGINEERING DEPARTMENT**

### **PROFILE**

The department of electrical engineering has been playing a vital role in producing scientists and technologists of highest calibre ever since it was established in the year 2002. In addition to the strong undergraduate programs, the department has been playing a pioneering role in producing world class postgraduates and research scholars. The infrastructure and lab facilities are upgraded from time to time and provide adequate opportunities for students and researchers to learn and innovate.

The department ensures that its students are educated in a manner that will ensure a successful career for each one of them. BUEST has an unbeaten track record of placements for its students due to its highly experienced faculty that keeps itself updated on the latest developments in their field of expertise, as well as its state-of-the-art infrastructure. Job opportunities are available in all the areas of Electrical Engineering such as Junior / Apprentice Engineer in Electrical Industry, Support Engineer, Sales Engineer, IT enabled services, Teaching, Power Protection, Load Dispatch and Load Flow. Distribution Network Supervision, Instrument Calibration, Power Generation and Transmission, Power Controlled Drives, etc. Electrical Engineering students go through several electronics, instrumentation, computer and IT related subjects who make them comfortable to choose electronics, Computer and IT based career. They may also opt these areas for higher studies. In BUEST, EE program, the students are required to do core courses of circuit analysis, electromechanical energy conversion and electrical technology. The labs are fully equipped for circuit & network theorem verification, using function generators and oscilloscopes. A separate electrical machine lab with single phase and three-phase A.C. motors/D.C. motors, various types of transformers, A.C. /D.C. generators and other power measuring equipment is for experimentation.

The department is supported by ten well equipped state of the art labs:

- Basic Electrical Engineering lab
- Electrical Measurement Lab
- Control System lab
- Switchgear & Protection Lab
- Power Electronics lab
- Electrical Machines Lab
- Bio Medical lab
- CAPSA lab
- Transmission & Distribution Lab\
- EPQ Lab

Electrical Engineering department offers the following course

- B.Tech in Electrical Engineering
- M.Tech in Power Electronics & Drives
- Ph.D

### **4.1 Achievements of the Department**

- **Dr. Jaydeep Chakravorty** (Associate Prof. & HOD) has has written a book on “Electrical Machines” and it is on print with Universities Press, Hyderabad.

- **Ms. Geena Sharma** (Assistant Professor) has joined Ph.D program at BUEST
- **Ms. Jyoti Saraswat** (Assistant Professor) has joined Ph.D Program at BUEST
- **Mr. Ajay Kumar** (Associate Professor) is perusing Ph.D in from MMU Maulana.

#### ACADEMIC ACHIEVEMENTS (BATCH 2012)

Bupin	Student	CGPA	Rank
13LEE008	Arun Rattan	9.5	Gold
13LEE003	Sushil Thakur	9.32	Silver
12UEE008	Avni Mahajan	8.92	Bronze

#### IN HOUSE FDP CONDUCTED

The department of Electrical Engineering conducted the following in house FDP's

- Ms. Aditi Sharma (Assistant Prof.) delivered a lecture on "Power Electronics Control of Electrical Drives" to Electrical engineering department faculties.
- Ms. Manavi Sharma (Assistant Prof.) delivered a lecture on "Smart Metering system" to Electrical engineering department faculties.
- Ms. Jyoti Saraswat (Assistant Prof) delivered a lecture on "Distributed Power Flow Controller (DPFC)."
- Ms. Geena Sharma (Assistant Prof.) delivered a lecture on "Electrical Power Quality"
- Dr. Sandeep Chakravorty (Dean, Acad.) delivered a lecture on "Genetic Algorithms and its application in Power system"
- Dr. Jaydeep Chakravorty (Hod,EE) delivered a lecture on " Fuzzy Logic and its application in Electrical Power System with MATLAB based applications"

#### PAPER PUBLISHED /CONFERENCES ATTENDED

##### Dr. Jaydeep Chakravorty

- "A Review on Power Quality and Soft Computing Techniques", 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016
- "A Review on Congestion management in Transmission Lines" 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.
- "Review on Induction Motor Soft Starter Using Solid State Switching Devices" 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.
- "Load Dispatch Center to Calculate continuous Variation in Load: A Review", 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016
- "DSP based Active Power Filter for Electrical Power Distribution Systems Supplying Nonlinear Loads: A Review", 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.

##### Dr. Sandeep Chakravorty

- "A Study on Various Wild Animal Repellents", 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.

- “Optimum Location of Substation using GA and BB-BC approaches”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.
- “Use Multi Criteria Decision Making Tool (MCDM) in Selection of Power Plant”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016

**Mr. Ajay Kumar**

- “Solar Charger Circuit using IC LM317”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.
- “Evolution of Power Electronics & Semi-Conductor Devices”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.
- “A Review of Multilevel inverter”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.

**Ms. Geena Sharma**

- “Harmonics Reduction using shunt active power filter”, International Journal of Advance Research in Electrical Electronics & Instrumentation Engineering, Volume:45 Issue:6, June-2016.
- “Harmonic in Industrial Distribution System”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016
- “A review on harmonics and its Filtering”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.
- “A Review on Low order Harmonic Elimination in Multilevel Inverters using Artificial Intelligence”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.

**Ms. Jyoti Saraswat**

- “Optimal Power flow in Electrical Power System Based on Conventional Methods- A Review”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.
- “A Review on Optimization Techniques for Economical Load Dispatch Problem”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.

**Ms. Ruchika Sharma**

- “A Review on Multiport DC-Dc Converter for Different Renewable Energy Sources”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016

**Mr. Gagandeep**

- “Simulation & Controlling of Brushless Dc Motor using PI/Fuzzy”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.
- “3D Modelling of Voltage Regulation and Efficiency of Transformer using MATLAB”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016

### Ms. Manavi Sharma

- “Star-Delta Starter for Three Phase Squirrel Cage induction Motor”, 2<sup>nd</sup> National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering, April, 2016.

### Book Published Details

- “Electrical Machines”, By Dr. Jaydeep Cakravorty, on print by Universities Press, Hyderabad.

### NATIONAL CONFERENCE

A 2<sup>nd</sup> National conference entitled “National Conference on Recent Innovations In Electronics, Electrical & Computer Engineering” was organized by three departments of Baddi University, Electronics Dept, Electrical Dept & Computer Science Dept, on 13<sup>th</sup> April, 2016. The chief guest of the conference was Prof. R.K. Sinha, Director (CSIR-CSIO). Key Note speaker was **Dr Jitender Chabhra, Prof. CSE Dept, NIT Kurukshetra, and Hariyana**. Conference had two technical sessions. Around one hundred and forty papers were presented by various academicians from outsides, faculty members and students of School of Engineering. The primary objective of the conference was to bring together the experts from academic institutions, industries and research organization in the areas of Electronics, Communication Networking, Electrical & Computer Engineering. The conferences facilitated close interaction for exchange of views and dissemination of knowledge. It was an opportunity to present and observe the latest research, results, and ideas in these areas. The outcome of the conference undoubtedly provided a foundation for the future prospects of technological advancements.

### INDUSTRIAL VISITS

Semester	Place visited	Date of visit
4 <sup>th</sup>	Madhala 220/66/33 KV sunstation	11/02/16
6 <sup>th</sup>	Wonder Automation, Mohali	16/02/16
8 <sup>th</sup> & M.tech	Madhala 220/66/33 KV sunstation	11/02/16

### GUEST LECTURE/EXPERT TALKS CONDUCTED

The following experts visited the department to deliver lectures/expert talks to the department.

- Prof. (Dr.) G.L. Pahuja, Prof & HOD NIT Kurukshetra
- Dr. Mukul Gupta, UPES Dehradun
- Mr. Tirthankar Chandra, Director Mkt, Sunurja, Chandigarh
- Mr. Ashish Burman, Director, Tech, Sunurja, Chandigarh
- Mr. Prashant Sharma, Manager, EESPL, Chandigarh

### Distinguished Experts Visited During the Year

The following distinguished experts visited the department during the year

Name of the Expert	Designation	University/Institute/Industry
Prof.(Dr.) G.L. Pahuja	Prof & HOD, EE Dept,	NIT Kurukshetra
Dr. Mukul Gupta	Dept. Of Electrical, Electronics & Instrumentation Engg.	UPES, Dehradun

Mr. Tirthankar Chandra	Director Mkt	Sunurja, Chandigarh
Mr. Ashish Burman	Director, Tech	Sunurja, Chandigarh
Dr. Omkar K Jain	Principal Research Scientist (Solar Research Wing)	Gujarat Energy Research & Managenet Institute
Mr.Prashant Sharma	Manager	EESPL, Chandigarh

### PRE PLACEMENT ACTIVITIES

Pre placement activities are done to increase the employability of the students. During session 2015-16 various sessions were taken by faculty members to make the students employable.

Session	Faculty
Revision of basics of Electrical Engineering	Ms. Ruchika Sharma
basics electrical machines	Mr. Ajay Kumar
Power generation.	Ms. Ishan Thakur
Transmission Systems an overview	Mr. Abhinav Dogra
Distribution of Power system	Dr. Jaydeep Chakravorty
Soft computing	Dr. Sandeep Chakravorty
Measuring Instruments	Ms. Jyoti Saraswat
Electrical Power Quality	Ms. Geena Sharma
Circuit Theory and	Ms. Jyoti Saraswat
Power Electronics application to machines	Ms. Manavi Sharma

## **DEPARTMENT OF COMPUTER APPLICATIONS**

### **PROFILE**

The Department of Computer Applications at SEET was established in the year 2008 with a vision to educate the youth who have zeal to explore the aspects of Computing, to make them responsible global citizens and future leaders through a challenging learning environment informed by avant-garde scholarship. Being the part of Baddi University we are deeply committed to serve the country and the citizens. We realize our responsibility to bring knowledge and innovation home to elevate the quality of lives of those who have shown faith and priceless understanding through the years. This measure of public trust and shared responsibility guides our decision-making as well as our vision for the future.

### **ACADEMIC PROGRAMS**

1. BCA(3 years)
2. MCA(3 years)
3. MCA(Lateral entry-2years)

### **ACHIEVEMENTS**

- Ms. Mrinal Sharma went to Employees' State Insurance Corporation Regional Office Baddi as a member of Interview board.

### **PAPERS PUBLISHED**

#### **Mrinal Sharma**

- *Quality and Quantity based comparison study of various power Management Protocols in MANETs*, Recent Innovations in Electronics, Electrical & Computer Engineering, 9 May'2015, Volume 2 special Issue-2
- *Wireless Security and Privacy Threats and Security Measures*, Recent Innovations in Electronics, Electrical & Computer Engineering 9 May'2015, Volume 2 special Issue-2.
- *A Qualitative Comparison of Data Centric Routing Protocols for WSN*, Recent Innovations in Electronics, Electrical & Computer Engineering 9 May'2015, Volume 2 special Issue-2
- *Base of the knowledge in the age of big data analysis*, Recent Innovations in Electronics, Electrical & Computer Engineering 13 April'2016, Volume 3 special Issue-1
- *Lifi Technology*, Recent Innovations in Electronics, Electrical & Computer Engineering 13 April'2016, Volume 3 special Issue-1
- *Introduction to Query processing and optimization*, Recent Innovations in Electronics, Electrical & Computer Engineering 13 April'2016, Volume 3 special Issue-1

#### **Anu Kaushal**

- *A Review on Software configuration Management Process*, Recent Innovations in Electronics, Electrical & Computer Engineering 9 May'2015. Volume 2 special Issue-2

### **COLLABORATIOS (MOU'S)**

Academic alliance with EMC2 and Infosys Campus connect.

### **CONFERENCE /WORKSHOPS/SEMINARS/INVITED TALKS ORGANIZED**

#### **Conference**

- National Conference on Recent Innovations in Electronics, Electrical & Computer Engineering 13<sup>th</sup> April'2016.

#### **Pre-Placement Workshop**

Sr.No.	Topics	Faculty Name/Designation
5.	OOPS and OOAD Concepts	Ms. Anu Kaushal/Lecturer-BUEST
6.	Data structure and algorithm	Ms. Rachna /Asst. Proff -BUEST
7.	Unix commands and SQL statements	Ms.Suman/Asst. Proff-BUEST
8.	Operating system	Ms.Mrinal Sharma/ Asstt. Professor- BUEST
9.	Computer networks and Client/Server computing	Mr.Manoj Thakur-BUEST

#### **In-house Seminars:**

Sr.No	Name of the Topic
1.	4G Broad band
2.	Google Glass
3.	JAVA Ring
4.	Green Cloud

### **ACHIEVEMENT OF STUDENTS**

<b>MCA-2012 BATCH</b>					
S.No	Student Name	BUPIN	Father's Name	CGPA	Medal
1.	Shashi Kant	13PCA003	Chender Shekhar	8.9	Gold
2.	Bikram Kumar Singh	13 PCA002	Balram Prasad Singh	8.5	Silver

### **INDUSTRIAL VISIT**

- Industrial visit to COMPUCOM Software Limited IT-14-15 EPIP, RIICO Industrial Area, Sitapur Jaipur

## **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

### **PROFILE**

The Department of ECE holds the vision to prepare engineers with technical expertise, professional attitude and ethical values, proficient to meet the needs of current technological advancements in the field of Electronics and Communication Engineering by establishing a learning environment consistent with industry standards in academics and research.

Since its inception, the department has set standards to help in shaping proficient engineering students to reach the supreme echelons in the professional world.

The department aims to create a passion amongst students for contributing to research by providing industry oriented learning. An in depth knowledge in principles and applications related to design and development of various systems for societal needs is provided. The department emphasizes to develop the skill sets, attitude and core competence among students and faculty by providing them with the opportunity to organize various technical, cultural & various skilful events.

### **ACADEMICS PROGRAMME**

#### **Courses offered by Department**

- Ph.D (Regular)
- B.Tech

#### **Labs of Department**

- Analog Electronics Lab
- Digital Electronics Lab
- Principle of Electronics Lab
- Virtual Instrumentation Lab
- Linear Integrated Circuits Lab
- Optical Fiber Communication Lab
- Digital System Design Lab
- Microprocessors Lab
- Industrial Electronics Lab

### **ACADEMIC ACTIVITIES**

#### **Seminars/Conferences/Workshops organized**

- Seminar was organized on 15<sup>th</sup> February; 2016 for the students of Electronics and Communication Engineering by Mr.Arvind Thakur &Mr.Ankur, Managers, Reliance Aims Chandigarh, on 'Introduction to Industrial Automation,SCADA and HMI Allen Bradely PLC'.
- Seminar was organized on 16<sup>th</sup> February; 2016 for the students of Electronics and Communication Engineering Mr.Gurmeet Sharma, CEO, EESPL Mohali, on 'Embedded Systems, Mechatronics, Robotics, Industrial Automation, PLC,SCADA'.
- Seminar was organized on 17<sup>th</sup> February; 2016 for the students of Electronics and Communication Engineering Mr.ViveksheelDutt, Manager, Business Development, DKOP Labs Noida, on 'VLSI Design, Embedded Systems & Software Development'.
- "Workshop on effective use of different measuring and testing instruments used in Electronics Laboratory "was conducted on September 15, 2015 by Ms.KammaKohli.

- Three Days Workshop on “Soft Computing and Applications” from 21<sup>st</sup> to 23<sup>th</sup> September, 2015.
- A three day workshop on “Android & Java applications” was organized from 13<sup>th</sup> Oct - 15<sup>th</sup> Oct 2015.
- A Three day Workshop was conducted on “Human Values and Professional Ethics” from 15 Feb to 17 Feb 2016.
- Two day Workshop was conducted on “Robotryst 2015” for ECE students in association with IIT Delhi.
- National Conference on “Recent innovations in Electronics, Electrical and Computer Engineering-RIEECE2015” was conducted on 9<sup>th</sup> May, 2016 by the Department of Electronics and Communication Engineering, Electrical Engineering and Computer Science and Engineering.

#### GUEST LECTURES

Date	Guest Speaker	Designation	Organization	Topic
August 18, 2015	Dr H.K. Sardana	Sr.Scientist	CSIO	Biomedical Image Processing
September 29, 2015	Dr Rohit Y Sharma	Assistant Professor- EE	Indian Institute of Technology, Ropar	Designing Efficient wires for Next Generation IC's
March 17, 2016	Dr AshwaniRana	Associate Professor- ECE	National Institute of Technology, Hamirpur	Nano Scale Devices

#### INDUSTRIAL VISITS

Date	Name of Company	Class	Semester	Faculty Accompanied
07/10/2015	Elchem circuits, Kripalpur, Nalagarh Solan (HP) – 174101	ECE	5 <sup>th</sup>	Mr.Tejinder Singh
08/10/2015	Elchem circuits, Kripalpur, Nalagarh Solan (HP) - 174101	ECE	5 <sup>th</sup>	Mr.Sanjeev Kumar Mr.Narender Kumar
23/11/2015	DD- National & DD-News, Kasauli, Solan (HP)	ECE	7 <sup>th</sup>	Mr.Tejinder Singh Mr.AmitKapoor
20/01/2016	Elchem circuits, Kripalpur, Nalagarh Solan (HP) - 174101	ECE	4 <sup>th</sup>	Mr.Sanjeev Kumar Mr.Jasvir Singh
23/02/2016	Digital System Inc., PLOT NO-239 HPSIDC IND AREA BADDI, SOLAN (HP)	ECE	6 <sup>th</sup>	Mr.Sanjeev Kumar Mr.Tejinder Singh Mr.Jasvir Singh

### LIVE PROJECTS

- Three different LED Matrix scrolling message display boards were designed mentioned as under:
  1. USB based LED matrix scrolling message display board.
  2. Wi-Fi based LED matrix scrolling message display board.
  3. GSM based LED matrix scrolling message display board.
- A project “Light ways broadcast system (LiFi)” was developed under the supervision of Honourable Vice-Chancellor.
- A project “Animal Repellent” was designed under the supervision of Honourable Vice-Chancellor.
- A project “Wi-Fi based LED matrix scrolling message display board” was developed for the BBND, Baddi.

### STUDENTS ACHIEVEMENTS

Sr. No.	Session	Tournament/Game	Achievement
1	2015-16	Participated in Inter University Sport fest PARAKRAM`15 on 7 <sup>th</sup> & 8 <sup>th</sup> of Nov. 2015 in Basketball, Volleyball and Badminton	Silver in Volleyball
2	2015-16	Hosted 1 <sup>st</sup> Inter University sports fest LAKSHYA`16 on 10 <sup>th</sup> to 12 <sup>th</sup> of April, 2016 in Basketball, Volleyball and Football at Baddi University Campus.	Silver in Basketball, Volleyball and Football

### RESEARCH ACTIVITIES

**Prof. (Dr.) Vinay Bhatia**

#### Paper Publications

- ‘A Review of Reactive Algorithms deployed for Mobile Ad-hoc Wireless Network’ National conference on Recent Innovations in Electronics, Electrical & Computer Engineering
- Studying dielectric materials & effect of iterations on U-KOCH microstrip antenna for wireless applications, IJARCET, vol. 4 no. 1, January 2015.
- ‘Analysis & improvement in the operating frequency of microstrip antenna,’ IJREAT, July 2015
- A Manhattan Distance approach for Energy Optimisation in Wireless Sensor Network,, IEEE International Conference on “Next Generation Computing Technologies” NGCT-2015, September 4-5, 2015
- Throughput and Delay Analysis of Wireless LAN Security Protocols Implementing NS2, International Journal of Applied Engineering Research (IJAER) Scopus Indexed, May, 2015.
- Analysis of multipath routing in Vanets with Elastic & Inelastic traffic National conference on Recent Innovations in Electronics, Electrical & Computer Engineering vol. 2, no. 2, May, 2015.

- BER Analysis of STBC ALAMOUTI's Code for MIMO System Seventh Sense Research Group International Journal of Electronics & Communication Engineering, Vol. 2 Issue 7, July 2015
- GMMC: Gaussian Mixture Model based Clustering Hierarchy Protocol in Wireless Sensor Network International Journal of Scientific Engineering and Research (IJSER), ISSN: 2347-3878
- A Review on Energy Efficient Protocols Implementing DR Schemes and SEECH in Wireless Sensor Network. International Organisation of Scientific Research, Journal of Electronics and Communication Engineering (IOSR-JECE), P-ISSN:2278-8735.
- A survey on Energy Efficient Protocols LEACH, Fuzzy-based approach and Neural Network Technique in Wireless Sensor Network, RIEECE, Volume 2, spl. Issue 2 (2015), e-ISSN:1694-2310 p-ISSN: 1694-2426 217
- An efficient global Registration method for multi- exposure images, National conference on Recent Innovations in Electronics ,Electrical & Computer Engineering, vol. 2, no. 2, 2015

#### **Mr.Kuldeep Singh**

##### **Workshop Attended**

- Attended a Workshop on Universal human values and ethics held at SUSCET, Tangori from 21-12- 2016 to 28-12- 2016.

##### **Paper Publications**

- 'Magnificent Fuzzy support to Ultrasonography for Disease Opinion ,IEEE conference CCIS-2015, Nov-15
- Disease Opinion through Fuzzy Logic in Medical Sonography, IJEEE Volume 2, Spl. issue 2(2015) e-ISSN: 1694-2310, p-ISSN: 1694-2426.
- Fuzzy Logic Application in Analysis of Sonographic Images (ACSIT), 326- 328, Volume 2, No. 4, April-June, 2015.

#### **Ms.Neha Sharma**

##### **Paper Publications**

- Audio Water Marking using Gray Images: Recent advancements, International Journal of Electrical & Electronics Engg. (Ijeee), vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426264
- High performance 5 G systems: An overview to exploratory phase, RIEECE-2015, vol. 2 spl. Issue 2(2015) e-ISSN: 1694-2310/p-ISSN: 1694-2426264

#### **Mr. Anshul Kumar**

##### **Paper Publications**

- Fingerprint recognition using hybrid of STFT and INLM with Rayleigh CLAHE" International journal of advanced research in computer science and software engineering, Vol. 5 ,issue 7, July 2015. ISSN:2277 128 p-739-742
- Review on fingerprint recognition techniques, RIEECE-2015, vol. 2 spl. Issue 2(2015) e-ISSN: 1694-2310/p-ISSN: 1694-2426264
- Wavelet based performance of Image Compression, RIEECE-2015, vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426264

- Classification of Pattern Recognition and Image Clustering, RIEECE-2015, vol. 2 spl. Issue2(2015),ISSN: 1694-2310/p-ISSN: 1694-2426264
- Comparison of CMOS operational amplifier Parameters: review, RIEECE-2015,vol. 2 spl. Issue 2(2015), e-ISSN: 1694-2310/p-ISSN: 1694-2426264.

#### **Ms.Kamnakohli**

##### **Paper Publications**

- Review on fingerprint recognition techniques, RIEECE-2015, vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426264
- Wavelet based performance of Image Compression, RIEECE-2015, vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426264
- Classification of Pattern Recognition and Image Clustering, RIEECE-2015,vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426264
- Comparison of CMOS operational amplifier Parameters: review, RIEECE-2015,vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426264

#### **Mr.Sanjeev Kumar**

##### **Paper Publications**

- 'Comparison of Dynamic Power saving with software and hardware DVFS for Low-Power Embedded Systems, International Journal IJEEE-2015,vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426240.
- A Formal Approach to Design and Verification of Different Modules of a Processor having Software Based Pipelining architecture, International Journal IJEEE-2015vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426258
- An FPGA Implementation of Baugh-Wooley Architecture for Signed & Unsigned Multiplication, National Conference RIEECE-2015,vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426322

#### **Mr.Tejinder Singh**

##### **Paper Publications**

- Comparison of Dynamic Power saving with software and hardware DVFS for Low-Power Embedded Systems, International Journal IJEEE-2015,vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426240.
- A Formal Approach to Design and Verification of Different Modules of a Processor having Software Based Pipelining architecture, International Journal IJEEE-2015vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426258
- An FPGA Implementation of Baugh-Wooley Architecture for Signed & Unsigned Multiplication, National Conference RIEECE-2015,vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426322

#### **Ms.Neerav Mehan**

##### **Paper Publications**

- High performance 5 G systems: An overview to exploratory phase, RIEECE-2015,vol. 2 spl. Issue 2(2015) e-ISSN: 1694-2310/p-ISSN: 1694-2426264

### **Mr.Manoj Thakur**

#### **Paper Publications**

- Comparative Study of Various edge Detection Techniques, RIEECE-2015, vol. 2 spl. Issue 2(2015),e-ISSN: 1694-2310/p-ISSN: 1694-2426264
- Wireless Security and Privacy Threats and Security measures, RIEECE-2015, vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426264
- Using Image Processing Analysis of Texture of Human Skin, RIEECE-2015, vol. 2 spl. Issue 2(2015) ,e-ISSN: 1694-2310/p-ISSN: 1694-2426264

### **Ms.Ramanpreet Kaur**

- A certificate of Appreciation has been received for contributing as reviewer in an International Conference on intelligent Communication, control and devices in association Springer held on 2<sup>nd</sup>& 3<sup>rd</sup> April, 2016 at UPES, Dehradun.

#### **Paper Publications**

- Published a review paper on Near Field Communication ,RIEECE,ISSN: 1694-2310
- Review paper on Smart Phones: Expanding Possibilities, IJEEE, Vol. 2, Issue 2,ISSN:1694-2310
- Stealth Technology and Counter Stealth Radars, International Journal of Engineering and Science, Vol. 3, Issue 12,ISSN: 2278-4721

### **Mr.Amit Kapoor**

#### **Paper Publications**

- Performance Analysis of high capacity bidirectional passive optical network for different number of user National conference on Recent Innovation in Electronics, Electrical and Computer Engineering Volume 2/ Issue 2/ May, 2015 e-ISSN: 1694-232 p-ISSN: 1694-2345
- Study of Free Space Optical System using Multi-Hop Technique, National conference on Recent Innovation in Electronics, Electrical and Computer Engineering, Volume 2/ Issue 2/ May, 2015,e-ISSN: 1694-2329 p-ISSN: 1694-2345.

### **Ms.Navdeep Kaur**

#### **Paper Publications**

- Enhanced Energy Efficient LEACH (EEE-LEACH) Algorithm using MIMO for Wireless Sensor Network **(Accepted)**, IEEE International Conference on Computational Intelligence and Computing Research (ICCIC),ISSN(IEEE XPLORE): 978-1-4799-7849-6 ,ISSN (PRINT)978-1-4799-7848-9.

### **Ms. Charu Sharma**

#### **Paper Publications**

- Performance Analysis of high capacity bidirectional passive optical network for different number of user, National conference on Recent Innovation in Electronics, Electrical and Computer Engineering, Volume 2/ Issue 2/ May, 2015,e-ISSN: 1694-2329 p-ISSN: 1694-2345.

- Study of Free Space Optical System using Multi-Hop Technique, National conference on Recent Innovation in Electronics, Electrical and Computer Engineering, Volume 2/ Issue 2/ May, 2015,e-ISSN: 1694-2329 p-ISSN: 1694-2345

#### STUDENTS' ACHIEVMENTS

2012(BATCH)			
Sr No	Student Name	Roll No	CGPA
1	Shalini Sharma	12UEC090	9.19
2	Ashish Gupta	12UEC010	9.08
3	Madhvi Garg	12UEC018	9.05

2013(BATCH)			
Sr No	Student Name	Roll No	CGPA
1	PriyaChaudhary	13UEC041	9.23
2	SidharthaParmanik	13UEC045	9.20
3	Navdeep Kaur	13UEC064	8.96

2014(BATCH)			
Sr No	Student Name	Roll No	CGPA
1	ChanderPrakash	14UEC005	9.70
2	Arjit Sharma	14UEC001	8.45
3	RohitBhalaria	14UEC016	8.42

#### PLACEMENTS (ECE STUDENTS)

S. No.	Name of company	Venue	ResultNo. of Student Placed
1.	IGATE	BUEST	15
2.	Orange	BUEST	5
3.	Unisys	BUEST	2
4.	Wep	BUEST	2
5	Jupiter Solar Power Ltd.	BUEST	6

#### OTHER ACTIVITIES

##### TRIO-TECH FUSION

**TRIO-TECH FUSION' 2016** was organized jointly by the department of Electronics and Communication, Engineering, Computer Science & Engineering and Electrical Engineering on 6th April, 2016.

**The Technical Competition** in the field of Electrical, Electronics and Computer Engg attracted a very wide spread participation from across the 3 Departments of BUEST. Component Identification, Technical quizzes, Technical Paper Presentation, Projects in the areas of IT Software Designing, Application Software Designing, Internet of Things (IOT), Embedded System Designing, Mobile Application Developments followed by cultural events were the distinctive features of this Technical Competition.

### SPORTS ACTIVITIES

S. No.	Events	Date
1	Inter Hostel Sports Tournament	12 Oct, 2015
2	Friendly Cricket Match between BUEST Secretary 11 & VC 11	16 Oct, 2015
3	Annual Athletic Meet	2- 10Feb, 2016
4	Inter branch Football Championship	23-25 Feb, 2016
5	Inter branch Cricket Championship	9 Mar, 2016
6	1 <sup>st</sup> Inter University Sports Meet LAKSHYA, 2016	10-12 April, 2016

### CLUBS FORMED IN THE DEPARTMENT:

#### 1. “ARTONICA”:- To exhibit the talent of students in a field of art.

Aesthetic club “**Artonica**” has been formed in ECE Dept. This club aims to bring out creativity in students and bring them together to showcase their talent in the field of art. For Example, with so many nations of the world driving on the road to economic development and technology ever advancing, the search for solutions to the e-waste problem is a multi-faceted endeavor. E-waste is a term used to cover almost all types of electrical and electronic equipment (EEE). It includes activities dealing with the creation of **art** with waste materials within the frame on the Comenius project "Nature for Humans, Humans for Nature".

#### 2. “ELECTROKRITI”:-

The Cultural Club has the important responsibility of keeping their fellow students entertained. It consists of activities like Music, dance and noked natak, etc. Apart from providing a forum for the accomplished singers and musicians of the campus to showcase their talents, it also provides teaching lessons for those interested in learning to play instruments and come up with original compositions.

#### 3. THE SKYWALKERS: Ability to Navigate “HEIGHTS”

The Electronics sports club “**The Skywalker**” is a club for the purpose of playing one or more sports. Every dream needs to be driven by passion to make it come true. This Sports Club is one such dream, formed by keeping sheer passion for the gentleman’s. A Sport Club is a student organization formed by individuals motivated by a common interest and desire to participate in a favourite sport activity.

The campus sport club provides recreational participation opportunities and encourages students to try something new. It is a great opportunity for students to make new friends or have a bit of fun while on campus. The activities, which include leagues and tournaments, are all about participating in friendly competitions and learning new skills.

#### 4. ELECTROVATE – Innovate to dominate in electronic world

The Electronics Technical Club “**Electrovate**” is a hobby group that aims to teach and help people understand the seemingly incomprehensible electronic gadgets in the world today,

and also assists people in developing their own devices. To this end, various lectures, workshops, projects as well as competitions throughout the year concerning both analog as well as digital electronics keep the calendar busy and the participants, learning. In this rapidly moving world, where everyday a new technology comes into existence, it is extremely hard to keep abreast with all the technical know-how, but if our basic concepts are intact then we can aim for the top. Innovation, Imagination and Application is our motto.

BADDI UNIVERSITY OF EMERGING SCIENCES AND TECHNOLOGY

## **COMPUTER SCIENCE & ENGINEERING DEPARTMENT- (NON IBM)**

### **PROFILE**

The computer science department strives for excellence in creating, applying, and imparting knowledge in computer science and engineering through comprehensive educational programmes, research in collaboration with industry and government dissemination through scholarly publications and serve to professional societies, the community, the state and the nation. Computer Science department has six well equipped Laboratories named Artificial Intelligence lab / Multimedia Lab/ Database management Systems lab/ Programming Lab with latest hardware and software's. A 125 Mbps leased line providing 24 hour Wi-Fi and Internet Facility throughout the campus.

### **ACADEMIC PROGRAMMES**

Computer Science and Engineering Department is running three academic programs.

- B.Tech (CSE) – 4 years
- M.Tech (Software Engineering ) – 2 years
- Phd (CSE)

### **ACADEMIC ACTIVITIES**

- Internet bandwidth has been upgraded from 75 mbps to 125 mbps providing 24 hours internet facility throughout the campus.
- CSE department is a Resource center for Spoken Tutorial Project of IIT Bombay under MHRD. Spoken tutorial project is initiated by IIT Bombay under National Mission on Education through ICT funded by Ministry of Human Resource Development, Government of India.
- A skill development program on “Java, Database & Soft Skills Modules” in Collaboration with Zensar Technologies has been conducted for CSE 8<sup>th</sup> semester students.
- New 30 PC's with 5i processor, 4GB RAM and 500GB HDD are updated & installed in computer lab-1 & Central library.
- The Department has conducted “codewizard-2015 ”National Level India's largest Coding Assessment and Placement Drive-2015 organized by Times of India Group on 05 Nov 15 in the University. 7 students got selected, 06 in Birlasoft on a package of 3.1 LPA and 01 in Airtel on a package of 10 LPA.
- **Mobile App COIN: -** An in-house APP “COIN” Communication over Intra Network for audio/video free calling and chat on university network was developed by final year students.
- **BBNDA Project:-**Online Guest House Booking System BBNDA had been completed as a Live Project and can be viewed on <http://bbndaguest.in/>
- The department had applied for 1Gbps under NMEICT Scheme of MHRD.
- CSE department organized a three day workshop on soft computing and applications from 21-23 September 2015.

- **Hackathon-2016:-** ITC infotech Bangalore organized iTech 2016(Hackathon), where two teams participated from the department, one team is selected for final round at Bangalore.

- **Project Based Industrial Training:-** Around 93 students of CSE(60) and CSE-IBM(33) are involve in the Project based industrial summer training by the EESPL, Mohali in IOT ,JAVA and PHP from 14/6/16.

- An Industrial visit was conducted to Click Labs Pvt. Ltd. on 17/5/2016 for students of Final year and Pre-final year.

- **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIECE’16)”** was organized by CSE, EE & ECE Department. 65 paper were published in Computer Science Engineering track

### **WORKSHOPS**

S.N O	Name of workshop	Topic	Organization	Date
1. 1 8	Soft computing & Applications	Soft computing & Applications	BUEST	21-23Sept. 15
2.	A 3- day workshop on ANDROID AND JAVA	ANDROID AND JAVA	BUEST	13-15 OCT 15
3.	3-Day Workshop on Human Values & Professional Ethics	Human Values & Professional Ethics	BUEST	15-17 Feb. 16

### **GUEST LECTURES**

Sr.N	Topic	Guest name/ designation	DATE
1	Innovation In Society by Computer science and engineering	Mr. Himanshu Batra,founder ACAD VIEW, earlier Project Manager, Google, California, USA	10 Sep 15.
2	ICOS portal	Mr Vikas, Manager - Customer Relations, CL Infotech Pvt Ltd.	27 Oct 15.
3	Discussion on Industry Oriented Project Scenarios	Mr Vikas, Manager - Customer Relations, CL Infotech Pvt Ltd	28 Oct 15.
4	Machine Learning”	Dr.R.K Sharma,Professor CSE & Dean(Faculty Affairs), Thapar University	11March16.
5	Mobile Sensor Networks	Prof (Dr.) Divya Bansal (Head, Cyber Security Research Centre, PEC University of Technology, Chandigarh)	19 May 2016.

### **LIVE PROJECTS BY STUDENTS**

S.No.	Name of Projects
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<b>IOT Based Projects</b>	
1.	IOT Based Remote Automated Irrigation Control System
2.	IOT based Smart Parking slot Monitoring System
3.	Wireless Sensor for Forest Fire Early Detection & Online Remote Monitoring using Fire Sensor
4.	IOT Based Online Traffic Congestion monitoring & management system
5.	IOT based Centralized Remote Sensing for Early Flood Detection
6.	IOT Based Smart Band
7.	IOT Based Smart Road Way Markers to avoid accident or blocked Routes
8.	Automated Greenhouse Monitoring & Controlling App Design using IOT
9.	Smart House
10.	Real Time Wireless sensor network monitoring & control system using IOT
<b>JAVA Based Projects</b>	
11.	Encryptography framework with Steganography
12.	Image Processing
13.	Home Automation With Java
14.	Robot Control with Java
15.	Online Examination System with Database
16.	Online Registration Form
17.	Online quiz with Database
18.	ATM Prototype with Database
19.	Scientific Calculator with GUI
<b>PHP Based Projects</b>	
20.	E-Book Website
21.	Stock Management system
22.	University Management System
23.	Online Work Portfolio

## **RESEARCH ACTIVITIES**

### **Dr. Ajay Goel**

#### **Conference/Workshop Attended**

- Appointed as a Member of technical committee in 6<sup>th</sup> IEEE international advance computing conference (IACC-2016).
- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### **Paper Published**

- **“A Comparison of Ontology based and keyword based query processing system for Urdu Language”** published in IJRSI ISSN 2321-2705 Volume II, Issue VIII , August 2015.
- **“QUrdPro: Query processing system for Urdu Language”** published in International Journal of Engineering Research and Applications ISSN: 2248-9622 Vol 5, issue 6, (Part 3) June 2015, and pp106-108.
- **“Domain specific ontology based query processing System for Urdu Language”** published in International journal of Computer Applications ISSN-0975-8887 Vol 121- No. 13, July 2015.
- **“Currency verification based on Neural Networks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016

### **Mr. Amar Singh**

#### **Conference/Workshop Attended**

- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### **Paper Published**

- **“Literature survey of various wild animal repellents”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

### **Mr. Aman Kaushik**

#### **Conference/Workshop Attended**

- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### **Paper Published**

- **“How Software Reuse decrease cost of project based on COCOMO Model”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“A Novel Evolutionary Approach to Software Cost Estimation”** in International Journal of Computer Applications 126(4):47-52, September 2015.
- **“A Review On Recent Trends In Software Cost Estimation”** ” e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“A Systematic Review of Software Maintainability Prediction”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“A Review Papers for Software Quality Using Quality Assurance Practices in the Project Life-Cycle”** ” e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“A Review on Various Software Testing Techniques”** ” e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016

#### Mr. Parulpreet Singh

#### Conference/Workshop Attended

- Attended short-term course on **“green building and sustainable practices”** from 29/02/16 to 04/03/16.
- Attended a one day workshop **“IPR awareness”** on 22 July 15.
- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### Paper Published

- **“A Survey of color, Texture and shape features for image retrieval based on content image retrieval”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.
- **“Image Retrieval Based on Content Based Image retrieval Technique”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016 .

**Mr. Parveen Thakur**

**Conference/Workshop Attended**

- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

**Paper Published**

- **“MANET-Intrusion Detection System”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“Wireless Sensor Networks-Coverage and Connectivity for Performance Enhancement”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“Steps to Defend Against DoS Attacks”**e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“Routing Protocols for Under Water WSN- A Review”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016

**Mr. Abhishek Tomar**

**Conference/Workshop Attended**

- Attended **Infosys Faculty Enablement Program** from 19 August 15 to 21 August 15 at Infosys SDB Chandigarh IT Park.
- Attended the **faculty enablement program on "foundation program 4.0"** by infosys in Chandigarh from 04/01/16 to 09/01/16.
- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

**Paper Published**

- **“Swarm intelligence: A Review”** published in IJCSIT VOL-II Issue-II, p-1694-2345 e-1694-2329, Aug 2015.
- **“How Software Reuse decrease cost of project based on COCOMO Model”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

- **“Comparison of Traditional Software Development Methods with Agile Methodology”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“A Review Papers for Software Quality Using Quality Assurance Practices in the Project Life-Cycle”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
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**Ms. Priya Arora**

#### **Conference/Workshop Attended**

- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### **Paper Published**

- **“A Study on Test Case Generation”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“Association Rule Mining Using Market Basket Analysis”**e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“A Study on Test Case Generation in Model Based Testing”**e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

**Ms. Aditi Kumar**

#### **Conference/Workshop Attended**

- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

### **Paper Published**

- **“MANET-Intrusion Detection System”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“Wireless Sensor Networks-Coverage and Connectivity for Performance Enhancement”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.
- **“Energy Efficient Routing Technique & Secure Routing in Wireless Sensor Networks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

**Ms. Suman Lata**

### **Conference/Workshop Attended**

- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

### **Paper Published**

- **“A Survey of color, Texture and shape features for image retrieval based on content image retrieval”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“Image Retrieval Based on Content Based Image retrieval Technique”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016

**Ms. Rachna Sharma**

### **Conference/Workshop Attended**

- Attended **three days workshop from 08 June 15 to 10 June 15 in the Infosys**, Chandigarh.
- Attended a **one day workshop on "Intellectual property & innovation management"** on 26 August 15 at BUEST.
- Attended a one day workshop **“IPR awareness”** on 22 July 15.

- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### **Paper Published**

- **“Energy Efficient Routing Technique & Secure Routing in Wireless Sensor Networks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“An Agent Based Approach to Avoid Selfish Node Dynamically in Mobile Networks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“A Review: Alternate Path Scheme For Secure Data Transfer In Ad Hoc Networks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“Steps to Defend Against DoS Attacks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“MANET-Intrusion Detection System”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016

#### **Ms. Anchal Bajaj**

#### **Conference/Workshop Attended**

- Attended an FDP on **“Team Building to Enhance Empower and Excel”** on 16 July 15 which was organized by School of Management Studies, Baddi university.
- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### **Paper Published**

- **“Automatic Emotional Recognition Using EEMD & Neural Networks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.
- **“Dynamic Resource Provisioning in Cloud Computing: A Randomized Auction Approach”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.
- **“Ensemble empirical mode decomposition (EMD) in clustered form and its application to wind turbine noise and co-seismic landslide-induced ground motion”** e-ISSN: 1694-2329 p-

ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

- **“Linked Data and Big Data”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

### **Ms. Ruchika Sharma**

#### **Conference/Workshop Attended**

- Attended **three days workshop from 08 June 15 to 10 June 15 in the Infosys**, Chandigarh.
- Attended a **one day workshop on "Intellectual property & innovation management"** on 26 August 15 at BUEST
- Attended a **one day workshop on "Statistical Data Analysis using SPSS"** on dated 6th October 2015 at BUEST.
- Attended short-term course on **“green building and sustainable practices”** from 29/02/16 to 04/03/16
- Attended the **Awareness/ Sensitization Programme on QMS/ QTT** on 30/06/16.
- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### **Paper Published**

- **“Energy Efficient Routing Technique & Secure Routing in Wireless Sensor Networks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“An Agent Based Approach to Avoid Selfish Node Dynamically in Mobile Networks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“A Review: Alternate Path Scheme For Secure Data Transfer In Ad Hoc Networks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“Steps to Defend Against DoS Attacks”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016
- **“Wireless Sensor Networks-Coverage and Connectivity for Performance Enhancement”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016

### **Ms. Nancy Sehgal**

#### **Conference/Workshop Attended**

- Attended a one day workshop on "Intellectual property & innovation management" on 26 August 15 at BUEST.
- Attended a one day workshop on "Statistical Data Analysis using SPSS" on dated 6th October 2015 at BUEST.
- Attended a **National Level Conference on "Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE'16)"** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

**Ms. Pallavi Jindal**

#### **Conference/Workshop Attended**

- Attended **the Awareness/ Sensitization Programme on QMS/ QTT** on 30/06/16.
- Attended a **National Level Conference on "Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE'16)"** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### **Paper Published**

- **"Study of energy efficient routing protocols of WSN: A-comparison"** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.
- **"Refinement in traditional RSA and modified RSA through the padding of non information bits"** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

**Ms. Nikita Malhotra**

#### **Conference/Workshop Attended**

- Attended a **National Level Conference on "Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE'16)"** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### **Paper Published**

- **"A Tutorial on Routing Protocols in Wireless Sensor"** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.
- **"A Survey of Heterogenous Cluster based routing protocols in WSN"** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

- **“Review Paper on Energy- Efficient Protocols in Wireless Sensor”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

### Ms. Shalinee

#### Conference/Workshop Attended

- Attended the **Awareness/ Sensitization Programme on QMS/QT** on 30/06/16.
- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### Paper Published

- **“The art of big data”** Paper\_id-cs-143 Pgno.180-182 e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in RIEECE-16, Apr 2016 .
- **“A survey of text mining techniques and applications”** Paper\_id-cs-165 Pg. no. 252-254 e-ISSN: 1694-2329 Volume 3,spl. Issue1.published in RIEECE-16, Apr-2016
- **“Performance analysis of Bayesian estimation and wavelet multiframe denoising”** Paper\_id-cs-130 Page no. 128-131 E\_ISSN:1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in RIEECE-16, Apr 2016 .

### Mr. Rajesh Chaudhary

#### Conference/Workshop Attended

- Attended the **Awareness/ Sensitization Programme on QMS/QT** on 30/06/16.
- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

#### Paper Published

- **“Review Paper on Energy- Efficient Protocols in Wireless Sensor”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.
- **“A Tutorial on Routing Protocols in Wireless Sensor”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.
- **“A Survey of Heterogenous Cluster based routing protocols in WSN”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

### STUDENT ACHIEVEMENT’S

<b>B.Tech-CSE 2012-2016 Batch</b>				
<b>Bupin ID</b>	<b>Name of Student</b>	<b>CGPA</b>	<b>Passing Year</b>	<b>Rank</b>
12UCS062	Aishwarya Sharma	9.19	2016	Gold
12UCS072	Riya Garg	8.84	2016	Silver
13LCS003	Shriya	8.36	2016	Bronze

### **PLACEMENTS**

<b>Sr no.</b>	<b>Name of the Company</b>	<b>Total number of students got placed</b>	<b>@ package</b>	<b>Details</b>
1.	iGATE	04	3.15 LPA	CSE: 04
2.	Orange	03	3.6 LPA	CSE: 03
3.	Zensar	02	3.6 LPA	CSE: 02
4.	Unisys	03	2.30 LPA	CSE: 03

### **Off –Campus Placements through Code Wizard Test(Conducted in the Department)**

<b>Sr.No</b>	<b>Name of the Company</b>	<b>Total number of students selected</b>	<b>@ Package</b>
1.	Birlasoft	06	@ 3.1 LPA
2.	Airtel	01	@ 10 LPA

### **Collaborations (MOU's)**

- A Memorandum of Understanding was signed with Zensar Technologies, Pune on employability skills development program on soft skill on 30 Jan 2015. This program is intended to give students the opportunity to work in an industry like environment. To train the students so as to give them exposure on core software skills and technologies viz Java, .NET, SQL, Testing, IM etc.
- Spoken tutorial project is initiated by IIT Bombay under National Mission on Education through ICT funded by Ministry of Human Resource Development, Government of India. This project includes workshops on modules which are provided by spoken tutorial team. The Spoken Tutorial Project is about teaching and learning a particular FOSS (Free and Open Source Software) like Linux, Scilab, LaTeX, PHP & MySQL, Java, C/C++, LibreOffice etc. via an easy Video tool - Spoken Tutorials.
- MOU is signed with Institution of Communication Engineers and Information Technologists (ICEIT)
- BUEST has been associated with Infosys under Infosys campus connect program since 2008 enhancing the new ideology of bridging gaps between industry and campuses. BUEST is the

advanced level academic partner of Infosys limited and is registered for over 20 courses under this value added program the collaborative effort by BUEST and Infosys ignites an inspirational spark in the students to blossom in to competent professional of future via following ways:

1. Dual perspective tutelage (academic and industry) for students via co-teach courses provided for achieving strong academia
2. Annual meet with all members academic partners is organized annually to introspect the work of the past and future sessions
3. Regular webinars, seminar and FDP sessions by industry practitioners are organized by Infosys for both faculty and students
4. Frequent interaction of student with Infosys via an exclusive portal accelerated learning for students by encouraging them to participate in the “ASPIRATIONS 2020” – a programming contest for students of engineering colleges to prepare themselves to become smart professionals

### **OTHER ACTIVITIES**

- **Student innovation club** of the department has been created with the motive to organize various events like hands on session on IOT, workshop on home automation and python to develop new projects.
- Department is conducting Summer training on “**Programming with C and C++**” in the computer lab. Mr. Abhishek Tomar , Mr. ParulPreet, Ms. Tanvi and Mr. Amar Singh will conduct hands on sessions for the same.
- **In-House FDP:** - Ms. Pallavi, Asstt. Prof. delivered an expert talk on “Microsoft Excel Advanced Features” to all the faculty members of CSE department on 09/03/16.
- **Ubuntu Training Program:-** The department had conducted 03 day In-house Training Program on Ubuntu for all faculty and staff members of the university from 20/04/16 to 22/04/16.
- **TRIO TECH FUSION 2016:-** Various Technical, Cultural and Fun events were organized in Pre-Conference fest “TRIO TECH FUSION 2016” on 06/04/16.

### **Commemorative events (Celebrations)**

- **Celebration of World Computer Literacy Day**
- CSE department in collaboration with Marketing department , celebrated world computer literacy day in **BUEST Campus** i.e. on 2nd December, 2015.
- **National Science Day Celebration:** - The CSE students presented their projects prepared under project based learning program in the Project Exhibition of National Science Day on 26/02/16.
- **International Yoga Day Celebration:-** Various Faculty and staff members of the department attended International Yoga Day Celebration on 21/06/16 in the university campus.

## **COMPUTER SCIENCE ENGINEERING (IBM) DEPARTMENT**

### **PROFILE**

**Introductory paragraph of the Department:** To build proficient skillful professionals, Baddi University has formed partnership with IBM to develop smartly customized industry oriented curriculums that skillfully nurtures and moulds the students into industry ready professionals. The Program curriculum brings together the latest software content, real-world industry experience, hands-on lab courses and best practices. It is supported by vibrant and sustained interaction with students and academia using IBM academia collaboration platform(iCOS) where academia, students and IBMers come together to discuss, share, build knowledge and future directions leading to innovation.

**Academic Programs and faculty:** The courses offered for CSE-IBM students are:

- Cloud Computing & Virtualization
- Mainframe Technologies
- Open Source Software & Open Standards
- Telecom Informatics
- Business Analytics & Optimization

### **ACADEMIC ACTIVITIES**

- Ms. Shaina Pundir and Ms. Priyanka Sharma (Faculty IBM-ICE) along with students of (2nd year)IBM-ICE visited IBM Bangalore for GuruKool Programme(21<sup>st</sup> June to 24<sup>th</sup> June 2016). The invited delegates from different MNCs and from different domains addressed the students and faculty on the recent and upcoming trends. The students also visited the data center of IBM, EMC Corporation and STPI.
- 2nd National Conference 'Recent Innovation in Electronics, Electrical & Computer Engineering' (RIEECE' 2016) was organized( 13/4/2016) jointly by the Computer Science and Engineering department, Department of Electronics and Communication Engineering, and Electrical Engineering.
- Dr. Sandeep Chakraborty( Dean Academics) and Ms. Priyanka attended one day principal meet at Infosys Ltd ,Chandigarh on 30/3/2016. It is an honour as BUEST is selected as Premier Member of Infosys for Campus Connect program.
- Mr. Vikas Saraswat ,Manager -Customer Relations ,CL Infotech Pvt. Ltd. Banalore visited BUEST to launch Beta Version module of ICOS portal for IBM students.
- Ms. Priyanka Sharma was designated the SPOC for Infosys and EMC Corporation
- The nomination form of EMC Academic Alliance has been submitted for the consideration of future research purpose with Baddi University.
- "Trio-Tech Fusion 2016" was jointly organized by CSE, ECE and EE department on 6/4/2016.
- 19 students of CSE-IBM(6<sup>th</sup> sem) attended in-house industrial training by Eureka Electro soft Pvt. Ltd. From 6/6/2016 to 6/7/2016.
- Ms. Priyanka and Ms. Shaina organized a one day industrial visit to APTRON Sol. Pvt. Ltd. Noida for the volunteer students of 3rd,4th year on 20/2/2016.

- COIN project app which would work on intranet for free audio and video calling was developed by Mr. Chirag , Mr. Anoop and Mr. Ankit. All are students of CSE-IBM(2011 batch). The app was launched by Honorable Chancellor Sir on 29/2/2016.
- Ms. Tanvi attended the 3 days workshop (15/2/16 to 17/2/16) on “Human Values an Professional Ethics” which was held at BUEST .
- Ms. Priyanka ( SPOC COAE) and Ms. Shaina visited EMC corporation in banglore for one day workshop which was held on 8/02/2016.
- Ms Tenzin Kunsel ,3rd year student was rewarded for best Newsletter on Icos portal by IBM.
- Ms. Shaina Pundir attended foundation program 4.0 from 4/16 to 9/1/16 at Infosys Chandigarh.

#### **WORKSHOPS AT BUEST**

S.NO	Name of workshop	Topic	Organization	Date
1.	T3 plan at BUEST	Virtualization & Cloud, Cloud Computing Architecture & Cloud Deployment Models	IBM,Banglore	23/6/2016-25/6/2016
2.	Beta Version module of ICOS portal	Launch of Beta Version module of ICOS portal	CL Infotech Pvt. Ltd. Banolore	1/4/2016
3.	Introduction to PYTHON (Webinar)	Basics of PYTHON	Infosys Ltd. Chandigarh	8/3/2016
4	Introduction to UBUNTU	Understanding UBUNTU desktop, Shell programming, Open Office.	BUEST(CSE-IBM)	30/5/2016-3/6/2016

#### **GUEST LECTURES**

Sr.No.	Topic	Guest name/ designation	DATE
1	BLUEMIX	IBM-SME, Mr. Sukumar Beri	6/5/2016

#### **PROJECTS**

S.No.	Projects allotted to the students by IBM Experts
1	Appstore for smartphones(multi platform)
2	Innovative Social Networking Using Referral Program
3	Crisis management
4	Disaster Recovery management system
5	Resource Reservation System for Cloud based Implementation

## **RESEARCH ACTIVITIES**

**Ms. Tanvi Arora**

### **Conference Attended**

- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

### **Paper Published**

- **“A review of metaphase chromosome image selection techniques for automatic karyotype generation”** published in Medical & biological engineering & computing conference, publisher springer with impact factor 1.76 in year nov 2015.
- **“Segmentation of Human Metaspread Images Using Region Based Active contours”** published in ICEMS Jaipur in march 2016.

**Mr. Abhishek Gupta**

### **Conference Attended**

- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

### **Paper Published**

- **“Energy Aware Diffusion in Wireless Sensor Networks”**, INSPEC Accession Number: 15804820 Date of Conference: 21-24 Dec. 2015 Page(s): 27 - 30 published in IEEE Conference ICIP-2015.
- **“Analysis of different Software Quality Prediction Techniques”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1. published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.
- **“VGDR (Virtual grid based dynamic routing protocol)”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1. published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

**Ms. Priyanka Sharma**

### **Conference Attended**

- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

### **Paper Published**

- **“Cloud Computing for Medical Applications & Healthcare Delivery: Technology, Application, Security and SWOT Analysis”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3, spl. Issue1. published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016

- **“Security Concern In Upcoming Trend Cloud”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016

#### Ms. Shaina Pundir

##### Conference/Workshop Attended

- Attended the faculty enablement program on "foundation program 4.0" by infosys Chandigarh from 04/01/16 to 09/01/16.
- Attended a **National Level Conference on “Recent Innovation in Electronics, Electrical & Computer Engineering (RIEECE’16)”** held at Baddi University of Emerging Sciences and Technology, Baddi on 13<sup>th</sup> April 2016 Sciences and Technology, Baddi on 13<sup>th</sup> April 2016.

##### Paper Published

- **“RIA (RICH INTERNET APPLICATIONS)”** e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.
- **“E-Commerce In India: Prospects And Problem”**e-ISSN: 1694-2329 p-ISSN-1694-2345 Volume 3,spl. Issue1.published in 2<sup>nd</sup> National Conference on Recent Innovations in Electrical, Electronics and Computer Engineering RIEECE-2016, Apr 2016.

## MECHANICAL ENGINEERING DEPARTMENT

### PROFILE

Mechanical Engineers deal with concepts such as mechanics, thermodynamics, robotics, kinematics, structural analysis, fluid mechanics and many others. These concepts are applied in the process of designing & developing State-of-the art manufacturing units, different types of motor vehicles, aircraft and aerospace parts and a vast assortment of industrial machinery. Mechanical Engineers also contribute in the development of various engines, power plant equipment, heating and cooling systems and other simple and complex machinery.

### ACADEMIC PROGRAMS:

- **Mechanical Engineering Department** offers a full time, four years **Bachelor of Technology** program. The students learn concepts which are applicable in the process of designing & developing state-of-the-art manufacturing units, different types of motor vehicles, aircraft and aerospace parts and a vast assortment of industrial machinery.
- **Master of Technology** in mechanical engineering comes with two specializations:
  - Production Engineering
  - Robotics & Automation
- **Academic Adoption** is a four years program which aims in providing students with hands-on experience in industry while studying in a B. Tech program. Students with good academic record are selected by the industry to work with them while they can attend classes on weekend basis to complete their study schedule.
- **Ph.D** in Mechanical Engineering (regular).

### Laboratories:

- Strength of Material Laboratory
- Material Science Laboratory
- Refrigeration and Air Conditioning Laboratory
- Internal Combustion Engines Laboratory
- Fluid Mechanics Laboratory
- Fluid Machinery Laboratory
- Principle of Mechanical Engineering Laboratory
- Theory of Machine Laboratory
- Metrology and Interchangeability Laboratory
- Automobile Engineering Laboratory
- Applied Thermodynamics Laboratory
- Measurement and Control Laboratory
- Computer Aided Design Laboratory
- Heat Transfer Laboratory
- Workshop

## CONFERENCE

**“EZUCURSION’16”**, National Conference on Innovations in Civil and Mechanical Engineering had been organized on 12<sup>th</sup> May -2016, in which 72 research articles were presented and published. Prof. (Dr.) AnandVaz (NIT, Jalandhar) was Key-note speaker for Mechanical Engineering Track. Prof. (Dr.) V. H. Saran (IIT, Roorkee) and Prof. (Dr.) Rupinder Singh (GNDEC, Ludhiana) were the invited speakers.

### Guest Lecture:

S. No	Name of Expert	Topic	Affiliation	Class	Date
1.	Prof (Dr.) Amanpreet Singh Sethi	Design Innovations	Dean Students Welfare, Baba Banda Singh College of Engg. & Technology, Fategarh Sahib	6 <sup>th</sup> & 8th Sem	27/10/2015
2.	Prof. (Dr.) A. K. Manna	Basics of Design and Manufacturing	Professor & Head (MED) PEC University, Chandigarh	6 <sup>th</sup> & 8th Sem	28/01/2016
3.	Mr. Kailash Prakash	CATIA-DeSoft	Guest Faculty, PEC University, Panjab University, CCET Chandigarh	4 <sup>th</sup> , 6 <sup>th</sup> & 8th Sem	18/02/2016
4.	Mr. Shailendra Deopa	HVAC systems	Manager, Maruti Suzuki India Ltd.	6 <sup>th</sup> & 8th Sem	19/02/2016

### INDUSTRIAL VISITS:

Odd Semester, 2015-16									
4th Year									
1	7th	ME-2	30	Milestone Gear Pvt. Ltd.	Visited	Mr. Kunal Sood	21-10-2015	Vibhu Sharma	Kamaljit Singh
2	7th	ME-3	60	Swaraj Mahindra, Mohali	Visited	Ms. Anita	19-11-2015	Vivek Kumar	Vibhu Sharma
3	7th	ME-1	60	Himtechno Forge Ltd., Baddi	Visited	Mr. C.M. Biala	20-11-2015	Sanjay Kumar	Rahul Bhardwaj
3rd Year									

4	5th	ME-1	68	Cheema Boilers	Visited	Mr. Manmohan Singh	21-11-2015	Navdeep Sandhu	AnkurKalia
		ME-2	67						
		ME-3	66						

Even Semster, 2015-16									
<b>4th Year</b>									
1	8th	ME-1	64	Himtechno Forge Ltd.,Baddi	Mr. Dharamchand	18-02-2016	Gurpreet Singh	Rahul Bhardwaj	
2	8th	ME-2	66	GGSTPS, Ropar	Mr. MukeshPuri	16-03-2016	Mr. Gurpreet Singh	Mr. Ishavneet Singh	
<b>3rd Year</b>									
3	6th	ME-2	67	Himtechno Forge Ltd., Baddi	Mr. Dharamchand	18-02-2016	VijenderRajora	Anil Baweja	
4	6th	ME-1	68	Indira canal ,Ropar	Mr. Manpreet	14-03-2016	Mr. Hardeep	MrManpreet	
<b>2nd Year</b>									
5	4th	ME-1	65	Milestone gears pvt ltd	Mr. Harnam	12-03-2016	Mr. VijenderRajora	Mr. AnkurKalia	
6	4th	ME-2	67	Cheema Boilers	Mr. Manmohan Singh	05-02-2016	Jatesh Kumar	Vivek Chauhan	
<b>All Batches</b>									
7	2 <sup>nd</sup> ,4 <sup>th</sup> ,6 <sup>th</sup>	ME1, ME2, ME3	60	Machine Tools Auto Expo	Mr. Sameer	13-02-2016	Gurpreet Singh	Vibhu Sharma	
8	2 <sup>nd</sup> ,4 <sup>th</sup> ,6 <sup>th</sup>	ME1, ME2, ME3	60	Auto Expo, Noida		05-02-2016	Gurpreet Singh	VijenderRajora	

## **FACULTY PUBLICATIONS:**

### **Mr. Ishbir Singh**

- *"Study on Process Parameters for Brass Casting"*, NCASEme-2016 (3rd National conference on Advancements in Simulation & Experimental Techniques in Mechanical Engineering), 26th & 27th February, 2016, Chandigarh University, Mohali (Punjab) pp. 253-257.
- *"Optimization of Process Parameters in Green Sand Casting- A Review"*, EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.
- *"Review of Structural Design of Wind Turbine"*, EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.
- *"Biodynamic Response of Indian Subjects under Sitting Posture"*, International Journal of Acoustics and Vibration. Publisher: International Institute of Acoustics & Vibration, United States. ISSN: 1027-5851.SCI Indexed Journal. Status: Communicated.
- *"Effect of backrest inclination on sitting subjects exposed to WBV"*, Procedia Technology, Vol. 23, pp. 76 -83 (2016). doi: 10.1016/j.protcy.2016.03.001. Publisher: ELSEVIER. ISSN: 2212-0173
- *"Effect of Cushions on Sitting Subjects Exposed to WBV"*, Perspectives in Science (Accepted). Publisher: ELSEVIER. ISSN: 2213-0209.
- *"Design and Analysis of a Gun Barrel Chamber"*, NCASEme-2016 (3rd National conference on Advancements in Simulation & Experimental Techniques in Mechanical Engineering), 26th & 27th February, 2016, Chandigarh University, Mohali (Punjab) pp. 258-263.
- *"Reverse Engineering of Air Pistol and its Analysis using FEA"*, EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.
- *"Influence of Varying Welding Current on Impact Strength of Metal Inert Gas Welding Joints"*, Journal of Mechanical and Civil Engineering (IOSR-JMCE), Special Issue- AETM' 16. pp. 33-37 (2016). e-ISSN: 2278-1684, p-ISSN: 2320-334X.

### **Mr. Kamaldeep Chugh**

- *"A Review: effect of friction Welding Parameters on Joint Strength of Dissimilar Metals"* EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.
- *"Impact of Various Tool Pin Profile on Properties of Magnesium Based Alloy AZ91A by Friction Stir Welding"* EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.
- *"Friction Stir Welding of Similar and Dissimilar Materials: An Overview"* EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.

### **Mr. Ishavneet Singh**

- *"Time Dependent Steady State Creep Analysis Of Thick-Cylinder Subjected To Internal Pressure"* TEQIP-II Sponsored National Conference on 19-20th February, 2015

- *"Friction Stir Welding of Similar and Dissimilar Materials: an Overview"* EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.
- *"Modeling of Steady State Creep in Thick-Walled Cylinders under Internal Pressure"* World Academy of Science, Engineering and Technology, International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering Vol:10, No:5, 2016.

#### **Mr. Khushmeet Kumar**

- *"A Study On Surface Roughness In Magnetorheological Finishing Using Regression Analysis Method"*, in proceedings of national Conference on "Recent Innovations in civil and mechanical Engineering" organized by BUEST, Baddi.
- *"Determination of Effective Efficiency of Artificially Roughened Solar Air Heater Duct Using Ribs"*, Distributed Generation & Alternative Energy Journal, vol. 30, no. 2, pp. 57–77, Apr. 2015.
- *"Utilization of Geothermal Energy for Space Heating"*, Maharaja aggersen science congress Emerging trends in Basic and applied sciences, organised by Maharaja Aggersen University, Kalujhanda(Solan)
- *"Nano Technology- A Review"*, in proceedings of national Conference on "Recent Innovations in civil and mechanical engineering" organized by BUEST, Baddi.
- *"Impact of Hygrothermal and Loading Conditions on Apparent Diffusivity of GFRP Composites,"* Walailak J Sci& Tech, vol. 12, no. 4, pp. 383–392, 2015.
- *"Scope And Hybridization Of Renewable Energy – A Review"*, in proceedings of national Conference on "Recent Innovations in civil and mechanical Engineering" organized by BUEST, Baddi.

#### **Mr. Kamaljeet Singh**

- *"An Experimental Study: Effect of Process Parameters on Micro-Hardness of O6 Steel in EDM"* EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.
- *"Friction Stir Welding of Similar and Dissimilar Materials: an Overview"* EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.

#### **Mr. Mahesh Bansal**

- *"Experimental Analysis of Heat Transfer from Engine Cylinder to water jacket with Porous Media"*, International Journal of Emerging Research in Management and Technology, ISSN 2278-9359, Vol.4, Issue 7

#### **Mr. Puneet Kumar**

- *"Utilization of Geothermal Energy for Space Heating"*, Maharaja aggersen science congress Emerging trends in Basic and applied sciences, organised by Maharaja Aggersen University, Kalujhanda(Solan).

#### **Mr. Gaurav Soni**

- *"Influence of process parameters on material removal rate, tool wear rate and surface roughness in ultrasonic machining: A review"*, EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.

**Mr. VijenderRajora**

- *"Optimization of Process Parameters in Green Sand Casting- A Review"*, EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.
- *"Design and Analysis of a Gun Barrel Chamber"*, NCASEme-2016 (3rd National conference on Advancements in Simulation & Experimental Techniques in Mechanical Engineering), 26th & 27th February, 2016, Chandigarh University, Mohali (Punjab) pp. 258-263.
- *"Reverse Engineering of Air Pistol and its Analysis using FEA"*, EZUCURSION'16 (National Conference on Innovations in Civil and Mechanical Engineering), 12th May, 2016.
- *"Influence of Varying Welding Current on Impact Strength of Metal Inert Gas Welding Joints"*, Journal of Mechanical and Civil Engineering (IOSR-JMCE), Special Issue- AETM' 16. pp. 33-37 (2016). e-ISSN: 2278-1684, p-ISSN: 2320-334X.
- *"Study on Process Parameters for Brass Casting"*, NCASEme-2016 (3rd National conference on Advancements in Simulation & Experimental Techniques in Mechanical Engineering), 26th & 27th February, 2016, Chandigarh University, Mohali (Punjab) pp. 253-257.

**Mr. Ravinder Kumar**

- *"Study on surface roughness measurement for turning of al 7075/10/SiC<sub>p</sub> and al 7075 hybrid composite by using response surface methodology(RSM) and artificial neural networking (ANN)" measurement*, 65 (2015) 166–180

**Ms. Sushma Singh**

- *"Utilization of Geothermal Energy for Space Heating"*, Maharaja aggersen science congress Emerging trends in Basic and applied sciences, organised by Maharaja Aggersen University, Kalujhanda(Solan)
- *"Nano Technology- A Review"*, in proceedings of national Conference on "Recent Innovations in civil and mechanical Engineering" organized by BUEST, Baddi.
- *"A Review On Effect Of Hygro-thermal environmental Condition On Mechanical Properties Of Glass Fiber And Carbon Fiber Laminates Composites"*, in proceedings of national Conference on "Recent Innovations in civil and mechanical Engineering" organized by BUEST, Baddi.
- *"Impact of Hygrothermal and Loading Conditions on Apparent Diffusivity of GFRP Composites,"* Walailak J Sci& Tech, vol. 12, no. 4, pp. 383–392, 2015.
- *"Scope And Hybridization Of Renewable Energy – A Review"*, in proceedings of national Conference on "Recent Innovations in civil and mechanical Engineering" organized by BUEST, Baddi.

**Mr. Mohit Vasudeva**

- *"Biodiesel production from moringaoleifera oil and its characteristics as fuel in a diesel engine"*, Proceedings of ICRABR 2015 (Springer) (SSS-National Institute of Renewable Energy, Kapurthala).
- *"Performance and exhaust emission characteristics of variable compression ratio diesel engine fuelled with esters of crude rice bran oil."* SpringerPlus 5, no. 1 (2016): 1-13.
- *"Performance and exhaust emission characteristics of variable compression ratio diesel engine fuelled with esters of crude rice bran oil"* SpringerPlus, 2016.

### Achievements of Department:

- One day workshop on “**IT and Innovation Management**” conducted by SPES on **26/08/2015**, was attended by two faculty members Mr. Gurpreet Singh and Mr. VijenderRajora.
- One day **CII-YI Pre-summit Entrepreneurship Workshop** at University Campus was attended by Mr. Gurpreet Singh along with some selected final and pre-final year students on **14<sup>th</sup> Sept., 2015**.
- On the occasion of Engineers day, **Royal Mechnos Technical Club** - Department of Mechanical Engineering, SEET, BUEST had organized an idea presentation event “**COGITATION: A DISTINCT IDEA**” on **15 - 09 – 2015**.
- The department faculty members, Mr. Ishbir Singh, HOD-ME, Mr. Gaurav Soni, Mr. Sanjay Kumar, Mr. Gurpreet Singh, Mr. Anil Baweja, Mr. Vivek Chauhan, Mr. VijenderRajora, have attended three days workshop on “**Soft Computing & Applications**” organized by Computer Sciences and Engg. Department of SEET, BUEST from **21/09/15 to 23/09/15**.
- The valedictory ceremony of “**INNOVISION 2015**” was organized by **SAE BUEST CLUB** on 14-10-2015 in which **Mr. Pradeep Shrivastava (Chancellor Baddi University)** was chief guest of the event.
- **Royal Mechnos Technical Club**organised its second event “**HOWITZERS: WAR OF CANONS**”. The faculty coordinators were Mr. Gaurav Chigal, Mr. Kamaljeet Singh and Mr. NavdeepSandhu.
- Mr. Ravinder Kumar presented a paper on title “**CHARACTERIZATION OF THE MECHANICAL PROPERTIES OF THE STIR CASTED 7075AL/SIC COMPOSITES UNDER NITROGEN ATMOSPHERE**” at NIT Hamirpur in **ISTE-2015** Section Level Annual Faculty Convention.
- Mr. Gurpreet Singh (AP, MED) completed a **Six week General Course on Intellectual Property (21-09-2015 - 03-11-2015)** from World Intellectual Property Organization through E learning.
- The valedictory ceremony of events “**HOWITZERS:WAR OF CANONS**” and“**COGITATION: A DISTINCT IDEA**” was organized by **Royal Mechnos Technical Club** on 17-11-2015 in which **Dr. Sandeep Chakrovarty (Dean Academics, Baddi University)** was chief guest of the event.
- Mr. Sanjay Kumar, Asstt. Prof. (AP-MED), attended short term course on “**Condition monitoring of rotating machine elements**” at IIT Indore from **21<sup>st</sup> Dec. 2015 to 23<sup>rd</sup> Dec. 2015**.
- Mr. Sukhwinder Kumar, Asstt. Prof. (AP-MED), attended short term course on “**Waste management & Optimization techniques**” at **GNDEC Ludhiana** from **27<sup>th</sup> Dec. 2015 to 5<sup>th</sup> Jan. 2016**.
- An event **TECHNOFILIA- Love for Technology** was conducted by **SAE BUEST club** on **9<sup>th</sup> February, 2016**. More than 100 students participated in events like Eureka, Quizzard, Welding Competition, Engine Demonstration, Tug of War and Loose Yourself.
- About 12 faculty members attended the workshop on **HUMAN VALUES AND ETHICS**, which was organized from **15-17<sup>th</sup> Feb, 2016**.

**ACADEMIC PERFORMANCE OF STUDENTS:****B.Tech.****Batch 2012**

Bupin ID	Name of Student	Father Name	CGPA	Passing Year	Rank
12UME096	Ujjwal Thakur	Guler Chand	8.80	2016	Gold
12UME034	Umesh	DiwakerDutt	8.72	2016	Silver
12UME281	Sunil Chandel	Madan Lal	8.65	2016	Silver

**Batch 2013**

Bupin ID	Name of Student	Father Name	CGPA	Passing Year	Rank
13UME193	Parvej Khan	Razad Khan	9.27	2017	Gold
14LME002	Arvind Patyal	Baldev Singh	8.77	2017	Silver
13UME152	Himanshu Mittal	Sanjay Mittal	8.71	2017	Silver

**Batch 2014**

Bupin ID	Name of Student	Father Name	CGPA	Passing Year	Rank
14UME003	Sowbhagiya Singh Ranaut	Amar Singh Ranaut	9.41	2018	Gold
14UME004	Shubham Sharma	Anand Kumar	9.26	2018	Silver
14UME158	SouravRana	Sanjay Kumar	8.78	2018	Silver

**Batch 2015**

Bupin ID	Name of Student	Father Name	CGPA	Passing Year	Rank
15UME017	Akshay Sharma	Kamal Dev	9.53	2019	Gold
15UME018	Nitesh Kumar	Kanwar Singh	8.76	2019	Silver
15UME055	Rajat Gupta	Pawan Gupta	8.47	2019	Silver

**PLACEMENTS:**

S. No	Company	Number of students selected	Name of students	Package	Date of placement
1	NTT DATA	1	★ShashwatChadda	3,00,000P.A.	27/11/2015
2	Wep Peripheral	3	★ AnkushPremi ★ Chandresh	3,60,000 P.A.	11/2/2016

			★ Manish Thakur		
3	Kamdhenulspat	3	★ ArunRana	2,76,000 P.A.	20/02/2016
			★ RajatKapil		
			★ Ashutosh		
			★ AkshayTyagi		
4	Gstamp	13	★ Shivashu	1,20,000 P.A	26/02/2016
			★ Suraj Singh		
			★ Amit Sen		
			★ ArpitShrotry		
			★ Anmol Gupta		
			★ Nitin Prashar		
			★ Vijay Saw		
			★ Karan Singh		
			★ Sunil Chandel		
			★ Dheeraj Kumar		
			★ Rohit Thakur		
			★ Anil Kumar		
5	Jupiter Solar Power Limited	6	★ Ashutosh Sharma	1,80,000 P.A (during training) 2,40,000 P.A. (after training)	19/03/2016
			★ RajatKapil		
			★ Bithul Gupta		
			★ Akshay Kumar		
			★ Ashwani Singh		
			★ Nikhil Dogra		
6	Thermax	7	★ Abhishek Karol	1,20,000 P.A.	21/03/2016
			★ Yoginder Chauhan		
			★ Akshay Kumar		
			★ Anil Kumar		
			★ Vivek Kumar		
			★ Sonu Kumar		
			★ SonuSangam		
7	Advik	12		1,00,000 P.A.	16/05/2016
8	Suryaflame	7	★ Amit Sharma	1,00,000 P.A	16/05/2016
			★ Vishal Thakur		
			★ Rishabh Mehta		
			★ Bhuvan Sharma		
			★ Nishant Sharma		
			★ AyushJaswal		
			★ Prince Verma		

9	TaeguTec	Result awaited			14/05/2016
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#### **TECHNICAL ACHIEVEMENTS:**

- "INNOVISION 2015" was celebrated as 1st anniversary of **SAE BUEST CLUB** on **08-10-2015**. In which more than 180 students from different departments participated in following activities:
  - 1. ENGINE OVERHAULING**
  - 2. ENGINE DEMONSTRATION**
  - 3. EVOLUTION OF TECHNOLOGY**
  - 4. AUTOMOTIVE QUIZ**
  - 5. SLOW BIKE RACE**
- Faculty coordinators for the event were Mr. VijenderRajora, Mr. Gurpreet Singhand Mr. JayantBhayana.
- Four students of Department represented their start-up ideas at CII-YI Pre Summit Competition on Friday, 16 October 2015 at Shoolini University; Solan. These students also attended CII-YI Summit at Chandigarh on 19/10/2015. Mr. Gurpreet Singh accompanied the students.
- One of Deptt. **SAE BUEST** team has qualified the virtual round of "**Ultra Golf Kart Championship**" held on **16-10-2015** at **MM University, Ambala**. Er. Ishbir Singh and Er. VijendraRajorawere the faculty advisors of the team.
- Students of **SAE BUEST CLUB** presented a wall clock to Department on the eve of Diwali making best out of waste. This mechanical wall clock is made of mechanical components like sprockets, spanners, spark plugs etc. HOD Mechanical Engineering Department praised the students for their technical creativity.
- Dream Team from **SAEINDIA BUEST COLLEGIATE CLUB** participated in **EFFICAR** season 2 organised by **UIET CHANDIGARH** have cleared the virtual round held on **28-05-2016**.
- Anuj Gupta and NishatPatial from team **SPARK of SAEINDIA BUEST COLLEGIATE CLUB** attended one day workshop on **EFFICYCLE-2016** on **18-06-2016** held at **NIEC, Delhi**.
- Mercurious Racing team of **SAEINDIA BUEST COLLEGIATE CLUB** has participated in **BAJA SAEINDIA-2017**. Virtual round held on **25-06-2016** at **CHRIST UNIVERSITY, KENGERI CAMPUS, BANGLORE**. (Result awaited).

## **SCHOOL OF PHARMACY & EMERGING SCIENCES**

### **PROFILE**

School of Pharmacy & Emerging Sciences (SPES) has been started at Baddi University in 2007 to provide quality education, training and carry out research in Pharmaceutical Sciences. SPES is located in one of the hub of Pharmaceutical Industry of India.

India, being one of the top three pharmaceutical manufacturing countries in the world, has ample opportunities for the professionals with skills in pharmaceutical sciences. SPES is providing skills to young students in pharmaceutical manufacturing, dispensing drugs and community pharmacy to provide information on safe & effective use of drugs, drug-drug interaction, toxicity of drugs and dosage regimen for patients.

SPES has state of art infrastructure for training students on manufacturing and quality control testing of drugs and their formulations. It has 15 modern, spacious laboratories with latest equipments: HPLC, FTIR, UV-Vis spectrophotometer, Gel electrophoresis, Karl-Fischer titrimeter, Tablet compression machine etc. SPES has spacious lecture halls with multimedia projectors, advanced computer and language laboratories, animal house and herbal garden. The library of the school is enriched with more than 5000 books, 100 National & International journals and study material in the form of CDs.

The performance of SPES is attributed to its highly qualified faculty from globally recognized Indian universities with 5 doctorates in pharmaceutical sciences and more than 5 faculty members are on the verge of completion. The research profiles of SPES faculty members as observed with their more than 300 research publications and 18 patents reflect the international status. The major areas of research of the school are –

- Synthesis of Novel medicinal agents – Benign Prostate Hyperplasia, Neuromuscular blockers, Polymeric prodrugs for Cancer, Anti-malarial drugs, Nitric oxide releasing analogues of drugs.
- Organ specific targeted drug delivery.
- Novel drug deliveries for solubility enhancement & control release.
- Drug metabolic studies.
- Pharmacological evaluation of herbal products.
- Analytical Method development and Validation
- Isolation, characterization & development of active constituents from medicinal plants.

SPES has best academic performance – more than 90% results in B. Pharmacy and 100% in M. Pharmacy. A Premier Pharmacy Institute in the hub of pharmaceutical industries at Baddi.

The students of SPES are well placed in pharmaceutical industry with around 90% campus placement. Throughout year, SPES also motivate the students by conducting regular expert lectures from Industry & Academia, workshops & training, quiz programs and cultural events. An association of students of SPES is in place as Baddi University of Pharmaceutical Association (BUPA) which actively conduct academic, sports and cultural activities. SPES being accredited by the Life Sciences Sector Skill Development Council (LSSSDC) has started Skill development programs in pharmaceuticals from Jan. 2016.

Recently, School of Pharmacy & Emerging Sciences has been adjudged as **Top Emerging Pharmacy Institute by AICTE-CII Survey of Industry-Linked Technical Institutes of India**. (5th University Industry Congress Global Higher Education Summit & Expo, 2-3 December, 2015)

## ACADEMIC PROGRAMS

- **B. Pharmacy**, Four years programme, approved by AICTE, New Delhi and Pharmacy Council of India, New Delhi.
- **Master of Pharmacy** offered by the University is two years degree programme with specialization in Pharmaceutics and Pharmaceutical Chemistry.
- **Ph. D.** programme in Pharmaceutical Sciences.

## FACILITIES DETAILS

- Well Equipped and Spacious Laboratories – 15
- Central Sophisticated Instruments Laboratory (CSIL)
- Industrial Prototype Laboratory
- CPCSEA approved Animal House
- Novel Drug Delivery Research Laboratory
- Synthetic Polymers and Medicinal Chemistry Research Laboratory
- CADD & Pharmacoinformatics Laboratory
- Computer Centre

## ACADEMIC ACTIVITY

### Conference & Workshop

Sr. No.	Name of Seminar/ Workshop	Date	Invited Speakers
1	Workshop on “Drug Abuse: Menace of Modern World”	10-11 May, 2016	Dr. Rajeev Trehan, Head, Department of Psychiatry; General Hospital, Panchkula. Dr. C. S. Gautam, Head, Department of Pharmacology, Government Medical College and Hospital Prof. Vidhu Mohan, Former Chairperson, Department of Psychology, Panjab University, Chandigarh
2	Workshop on, "Statistical Data Analysis using SPSS"	6 October, 2015	Dr. Ravi K Mahajan, Dr. Kalpana K. Mahajan, Ms. Preeti Rattan, Ms. Kamaljit Kaur from Panjab University, Chandigarh
3	Industry Institute Interaction Meet for LSSSDC Certified Skill Development Programmes	28 September, 2015	Mr. Amar Dixit (Marketing Head, LSSSDC, New Delhi), Mr. Ravindra Dhapola (HR Head, Abbott India Ltd.), Mr. Raman Angra (Head HR, Sentiss Pharma Pvt. Ltd.), Mr. Prahlad Sharma (HR Executive, CIPLA Ltd.), Mr. Dinesh Sharma (HR Head, Fresenius Kabi Oncology Ltd.)
4	Workshop on “Intellectual Property and Innovation Management in Pharmaceutical	2 August, 2015	Mr. B. K. Sahu, Deputy Manager, IPR, NRDC, New Delhi and Mr. R. P. Yadav, Senior Patent Attorney, SR4IPR Partners, New Delhi

	Sciences” Research Development Corporation, New Delhi		
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#### **INDUSTRIAL VISIT**

<b>Sr. No.</b>	<b>Date</b>	<b>Year</b>	<b>Semester &amp; No. of Students Visited</b>	<b>Name of the Industry Visited</b>	<b>Name of the Faculty Members Visited</b>
1	18-21 February	2016	8th Semester	Sharon Biomedicine & Forest Research Institute. Dehradun	Mr. Nitin Sharma Ms. Swati Sareen
2	5-7 February	2016	2nd and 4th Sem. M.Pharmacy & 6th Sem. B.Pharmacy	Mankind Research Centre, Manesar, Gurgaon	Dr. Nitin Verma Dr. Saahil Arora Dr. Arti Thakkar Dr. Ravinesh Mishra
3	29th October	2015	7th Sem. B.Pharmacy	Macleods Pharma. Ltd, Baddi	Mr. Nitin Sharma Ms. Gurpreet Kaur .
4	01, October	2015	5th Sem and 33 Students	Alkem Laboratories Ltd. Baddi	Dr. Ravinesh Mishra and Ms. Chand Kaur
5	11, September	2015	3rd Sem and 60 Students	Cipla Ltd. Baddi.	Mr. Sahil Kumar and Ms. Chand Kaur
6	03, September	2015	1st Sem and 41 Students	Dr. Reddy's Laboratories Ltd. Baddi.	Dr. Nitin Verma and Ms. Deep Darshan Kaur

#### **EXPERT LECTURES**

<b>Sr. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Company/ University Name</b>	<b>Date of Lecture</b>	<b>Topic</b>
1.	Mr. Ravi Kumar M.	Application Scientist	Schrödinger	21/04 /2016	Advances of Computational methods in drug discovery
2.	Dr Vineet Kapur, M.D.	Physician, Neurologist, Radiologist	Former Faculty at The Ohio State University Medical Centre, USA	11/04 /2016	Brain injury

3.	Professor R.S.R. Murthy	Professor	Former Chairman, Pharmacy Department, Faculty of Technology and Engineering, The M.S. University of Baroda, Vadodara	16/03 /2016	Nanotechnology in Drug Delivery: An Industrial Perspective
4.	Mr. N. Ganesh	Head, Microbio. Deptt.	Sentiss Pharma. Baddi	08/03 /2016	Microbiological Testing in Ophthalmics
5.	Prof. Mandeep Sachdeva	Professor	Florida A & M University, USA	19/02 /2016	Overcoming the Barriers in Solid Tumors by Novel Delivery System.
6.	Dr. Anil Kanujia	Head R& D	Ayurved Ltd. Baddi	09/02 /2016	Quality Aspects in Herbal Drugs: Challenges and Way- Forward.
7.	Dr. Pradeep Gupta	Professor	Philadelphia College of Pharmacy, Philadelphia	19/11 /2015	Design of Growth Hormone Binding Peptide
8	Dr. Pritesh Bhatt	Application Scientist	Schrödinger	14/09 /2015	“Development in Computational Drug Designing”
9	Prof. M.R. Yadav	Chairman, Pharmacy Deaprtment	The M S University of Baroda, Vadodara,	15/09 /2015	“Site Specific Chemical Delivery Systems”
10	Prof. V.K. Kapoor	Former Dean and Chairman	UIPS, Panjab University Chandigarh	12/08 /2015	Pharmacy Career and Scope. Stereochemical Aspects of Drugs.

#### **PUBLICATION BY FACULTY**

##### **Prof. Tilak Raj Bhardwaj**

- “Design of Novel Cinnamylidene-2, 4-Thiazolidinediones as Aldose Reductase Inhibitors Using Molecular Docking”. “Emerging Trends in Pharmaceutical Sciences”, ISSN No. 2455-7919, 2016, Vol. 1, pp.36-43
- “Quantitative Infrared Spectroscopy, Derivative Spectroscopy and Non-Aqueous Titration Method Development and Validation for Novel Prodrug of Ibuprofen”. “Emerging Trends in Pharmaceutical Sciences”, ISSN No. 2455-7919, 2016, Vol. 1, pp.23-30
- “Design, Synthesis and Evaluation of Antimalarial Potential of Polyphosphazene Linked Combination Therapy of Primaquine and Dihydroartemisinin”. “European Journal of Pharmaceutical Sciences”, ISSN No. 0928-0987, 2015, Vol. 66, pp. 123-137.

- “Design, Synthesis and Evaluation of Antimalarial Potential of Polyphosphazene Linked Combination Therapy of Primaquine and Dihydroartemisinin”. “European Journal of Pharmaceutical Sciences”, ISSN No. 0928-0987, 2015, Vol. 66, pp. 123-137.
- “Recent advances in novel heterocyclic scaffolds for the treatment of drug-resistant malaria” “Journal of Enzyme Inhibition and Medicinal Chemistry” 2015, ISSN No. 1475-6366. DOI: 10.3109/14756366.2015.1016513
- “Role of Polymer Drug Conjugates in Organ Specific delivery systems” in “Journal of Drug Targeting”, 2015. ISSN No. 1029-2330. DOI: 10.3109/1061186X.2015.1016436
- “Synthesis and Evaluation of Substituted Poly(organophosphazenes) as a Novel Nanocarrier System for Combined Antimalarial Therapy of Primaquine and Dihydroartemisinin” Pharmaceutical Research, 2015, ISSN No. 0724 8741.Vol. 32 pp. 2736–2752
- “Recent Advances in Polymer Drug Conjugates” Mini review in Medicinal Chemistry, 2015. **ISSN: 1875-5607** (In press).
- Patents : Indian : 01 (Filed)
- “Lactobionic Acid Conjugated Polyphosphazene Based Nanodelivery of Primaquine For Liver Targeting To Check Antimalarial Activity.. Application No. 533/DEL/2015. 13 March, 2015

#### Dr. Nitin Verma

#### PROJECTS SUBMITTED

S. No.	Name of the Project	Total Cost	Duration of Project	Agency	Status of the Project
1.	Development of Pharmacognostical Monograph and Phytochemical Screening of Some Endangered Medicinal Plant Species in Himachal Pradesh.	3,00,000/-	2 Years	DST, Himachal Pradesh	Screened by Internal Scrutiny Committee and selected for Presentation.
2.	Radioprotective Effect of Some Ayurvedic Rasayana Formulations for the Treatment of Cancer	28,70,270/-	3 Years	CCRAS, AYUSH New Delhi.	Submitted on 11.05.2016

#### Membership of professional bodies and scientific societies

- Dr. Nitin Verma become a member of International Association of Therapeutic Drug Monitoring & Clinical Toxicology (IATDMCT), Canada.
- Dr. Nitin Verma become a member of Society of Toxicology (SOT), Reston, VA

### Workshops and training programs attended

- Completed NPTEL Online course on “Mass Spectrometry Based Proteomics” from IIT, Mumbai.
- Attended three days workshop on "Human Values and Professional Ethics" at Baddi University of Emerging Sciences and Technology Baddi on 15-17<sup>th</sup> February, 2016.
- Attended one day workshop on "Intellectual Property and Innovation Management" at Baddi University on 26 August, 2015.
- Attended one day workshop on “IPR Clinic: Patent, Copyright Drafting Filing and Design Registration”, on 16<sup>th</sup> January 2015, organized by IPR Nodal Cell for PSCST, Chitkara College of Pharmacy, Chitkara university Panjab.

### Research publications

- Current regulatory challenges and approaches in the registration of herbal drugs in Europe, Clinical Research and Regulatory Affairs, (Taylor & Francis) DOI:10.3109/10601333.2016.1130717.
- Chemistry & Biology of Genus *Wedelia*: A Review, Indian Journal of Natural Product Resources, (CSIR), 6 (2), 71-90.

### Research papers communicated

- Spectral and Chemical Studies on Diosgenin from *Costus speciosus* (Koeing) Sm. Rhizomes and its effects on Brain Neurotransmitter and Enzyme Monoamine oxidase following Cold Immobilization Stress. The Natural Product Journal (Bentham Science).
- Antinociceptive Activity of Ethanolic Extract of *Wedelia chinensis*. Ancient Science of Life.
- Pharmacognostical, Physicochemical, Preliminary Phytochemical Standardization and HPTLC studies of *Wedelia chinensis* Leaves. South African Journal of Botany (Elsevier).

### Research papers presented in conferences and symposium

- **“Evidence Based Alternative and Complimentary System of Medicine In India and China: Challenges and opportunities”** presented in **National Conference cum workshop on “Exploration of Himalayan Natural Wealth for Drug Discovery” on April, 22-23, 2016, organized by** School of Pharmaceutical Sciences, Shoolini University, Solan in association with Department of Science & Technology.
- “Importance of Nanotechnology-Based Drug Delivery Systems for Herbal Medicines” presented in National Seminar on Pharmaceutical Nanotechnology: Current Scenario and Future Prospects” February 27, 2016 organized by PCTE group of Institutions, Ludhiana in association with I K Gujral Panjab Technical University, Jalandhar.
- “Academic Adoption Programme: A Synergy between Academic and Industry Partnership” presented in 20<sup>th</sup> Annual National Convention (APTICON 2015), Association of Pharmaceutical Teachers of India, on “Strategic Approaches to Strengthen Academic

and Industrial Collaboration” October 9-11, 2015 organized by Pharmacu Colleges of M.P., at Jiwaji University Indore, M.P.

- “Safety, Efficacy, Quality Control, Marketing and Regulatory Guidelines for Herbal Medicines (Phytotherapeutic Agents)”, presented in *1<sup>st</sup> Industry-Academia Interaction Seminar on “Quality Standards In Herbal Drug Industry- Challenges and Future Course” on 13-14, February, 2015*, organized by Sri Sai College of Pharmacy, Badhani-Pathankot, India.
- “Recent Advances In Analysis Of Indian Medical Plants and Traditional Medicines” presented in *International Conference on Global Trends in Pharmaceutical and Clinical Practices on 7<sup>th</sup> February, 2015*, organized by Teerthanker Mahaveer College of Pharmacy, TMU, Moradabd in collaboration with Department of Science and Technology, Government of India, New Delhi.
- "Importance and Pharmaceutical Applications of Various Natural Gums, Mucilages and their Modified Forms in Drug Delivery System " presented in *one day Symposium on 'Emerging Trends in Pharmaceutical Sciences' on 6<sup>th</sup> February, 2015*, organized by University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh.

#### **Awards and Achievements**

Dr. Nitin Verma Selected as CPCSEA Nominee from **Ministry of Environment Forest and Climate Change, Govt. of India, New Delhi.**

#### **Prof. Saahil Arora**

- “Oligosaccharides and Probiotics as Antiadhesive Tools Against Surface Lectins of Helicobacter Pylori”. “Emerging Trends in Pharmaceutical Sciences”, ISSN No. 2455-7919, 2016, Vol. 1, pp.58-67.
- Nanoemulsion: Challenges and opportunities in Drug Delivery System. Book Chapter In Nanobiomedicine Vol. 2 Nanopharmaceuticals. 2015.
- “Role of Polymer Drug Conjugates in Organ Specific delivery systems” in “Journal of Drug Targeting” 2015.
- “*In situ* novel gel of levodopa for brain targeting using chitosan thio glycolic acid conjugate and musk ketone by efflux transport modulation” World Journal of Pharmacy and Pharmaceutical Sciences
- “Polymeric Drug Delivery Systems: Role in P-Gp Efflux System Inhibition” Critical Reviews in Therapeutic Drug Carrier Systems. 2015.
- Patents : Indian : 01 (Filed)
- “Lactobionic Acid Conjugated Polyphosphazene Based Nanodelivery of Primaquine For Liver Targeting To Check Antimalarial Activity.. Application No. 533/DEL/2015. 13 March, 2015

#### **Dr. Arti Thakkar**

- “Quantitative Infrared Spectroscopy, Derivative Spectroscopy and Non-Aqueous Titration Method Development and Validation for Novel Prodrug of Ibuprofen”. “Emerging Trends in Pharmaceutical Sciences”, ISSN No. 2455-7919, 2016, Vol. 1, pp.23-30

- “HPTLC-densitometric and RP-HPLC method development and validation for determination of Salbutamol sulphate, Bromhexine Hydrochloride and Etofylline in table dosage forms” “Pharmaceutica Analytica Acta”, ISSN: 2153-2435 2015, Vol. 6, Issue 3, 350.

#### **Dr. Ravinesh Mishra**

- “RP-HPLC Method Development for the Estimation of Rosiglitazone and Glimepiride in Bulk and Tablet dosage form” “ALLY J. Pharma. Sci.” 2015
- “Design and synthesis of pyrimidine molecules endowed with thiazolidin-4-one as new anticancer agents” “European Journal of Medicinal Chemistry”. 2015.
- “A RP-HPLC Method Development for the Estimation of Pioglitazone and Glimepiride in Bulk and Tablet Dosage Form” “ALLY J. Pharma. Sci.” 2015.

#### **Sahil Kumar**

- An efficient synthesis of 1-amidoalkyl-2-naphtols catalyzed by zinc oxide nanoparticles under solvent free conditions, Indian Journal of Chemistry, Vol 55B, March 2016, pp 381-386. (Impact Factor: 0.387, ISSN: 0975:0983).
- “Design, Synthesis and Evaluation of Antimalarial Potential of Polyphosphazene Linked Combination Therapy of Primaquine and Dihydroartemisinin”. “European Journal of Pharmaceutical Sciences”, ISSN No. 0928-0987, 2015, Vol. 66, pp. 123-137.
- “Recent advances in novel heterocyclic scaffolds for the treatment of drug-resistant malaria” “Journal of Enzyme Inhibition and Medicinal Chemistry” 2015, ISSN No. 1475-6366. DOI: 10.3109/14756366.2015.1016513
- “Role of Polymer Drug Conjugates in Organ Specific delivery systems” in “Journal of Drug Targeting”, 2015. ISSN No. 1029-2330. DOI: 10.3109/1061186X.2015.1016436
- “Synthesis and Evaluation of Substituted Poly(organophosphazenes) as a Novel Nanocarrier System for Combined Antimalarial Therapy of Primaquine and Dihydroartemisinin” Pharmaceutical Research, 2015, ISSN No. 0724 8741.Vol. 32 pp. 2736–2752
- “Recent Advances in Polymer Drug Conjugates” Minireview in Medicinal Chemistry, 2015. **ISSN: 1875-5607** (In press).
- “Recent advances in one-pot multicomponent catalytic synthesis of amidoalkyl naphthols” Iranian Journal of Catalysis Vol. 5, Issue 3, 2015, pp. 187-206.
- “Clinical Symptoms and Therapies for Multiple Sclerosis. “Journal of Pharmaceutical Technology, Research and Management” 2015, Vol. 3, Issue 1, May 2015, pp. 29–47.
- “Microwave Assisted Facile Synthesis of 1-Amidoalkyl-2-naphthols Catalyzed by Stannous Oxide Nanoparticles” “Journal of the Indian Chemical Society” Vol. 92, July 2015, pp. 1-5
- Patents : Indian : 01 (Filed)
- “Lactobionic Acid Conjugated Polyphosphazene Based Nanodelivery of Primaquine For Liver Targeting To Check Antimalarial Activity.. Application No. 533/DEL/2015. 13 March, 2015

#### **Gurpreet kaur**

- “In-vitro antioxidant study of Ficus arnottiana Miq leaf extract”. “International Journal of Pharmacy and Integrated Life Sciences (IJPLS) NOV 2015; 3(12):13-25.

- “Pharmacognostic, Phytochemical and Physicochemical Study of Ficus arnottiana Miq. Leaves (Moraceae)” International Journal of Pharmacognosy and Phytochemical Research 2016; 8(1); 193-198 ISSN: 0975-4873.
- “In-vitro antimicrobial activity of crude extract of ficus arnottiana miq. leaves (moraceae): an ethnomedicinal plant “ International Journal of Pharmaceutical sciences and Research.

#### **Bhartendu Sharma**

- “In-vitro antioxidant study of Ficus arnottiana Miq leaf extract”. “International Journal of Pharmacy and Integrated Life Sciences (IJPLS) NOV 2015; 3(12):13-25.
- Anti-nociceptive activity of methanolic extract of *Murrayakoenigii* leaves in rats. Journal of cell and tissue research. (communicated)
- AN OVERVIEW ON TRANSUNGUAL DRUG DELIVERY SYSTEM. European Journal of Biomedical and Pharmaceutical sciences. (Review Article ejbps, 2015, Volume 2, Issue 5, 168-178. SJIF Impact Factor 2.062).
- **Poster Presentation in National/International Conferences (2015-16)**
- Dr. Arti Thakkar, Associate Professor, SPES received Second Best Poster Award at 7th International Symposium on DMPK – 2015, NIPER, Mohali, India.
- Dr. Arti Thakkar, Associate Professor, SPES, authored a research paper in collaboration with Johnson & Johnson, USA was presented at 2015 AAPS (American Association of Pharmaceutical Scientist) Annual Meeting and Exposition, Orlando, USA.
- Dr. Ravinesh Mishra, Associate Professor, SPES has presented a paper entitled, “Toxicological Safety Assessment of Novel Carbohydrazides: An Anti-tubercular drug” in International Congress of Therapeutic Drug Monitoring & Clinical Toxicology at Congress Centre De Doelen, Rotterdam, Netherlands (11-15 Oct., 2015). Dr. Mishra has received International Travel Grant (US\$ 2000) from IATDMCT.
- Dr. Nitin Verma, Associate Professor, SPES presented a poster presentation on “Importance of Nanotechnology-Based Drug Delivery Systems for Herbal Medicines”, in National Seminar on “Pharmaceutical Nanotechnology: Current Scenario and Future Prospects” 27 February, 2016.

#### **ONGOING RESEARCH PROJECTS**

<b>Student's Name</b>	<b>Project Title</b>	<b>Guide</b>	<b>Co-guide</b>
Ravneet Kaur	Designing and validation of novel dissolution apparatus for Pediatric dosage form	Dr. Arti Thakkar	
Saroj Kumari	Formulation and evaluation of emulgel of chitosan caffeic acid microparticles of curcumin	Prof. Saahil Arora	
Alka Sharma	Synthesis and evaluation of polyphosphazene based nanodrug carriers for treatment of cerebral malaria	Prof. T.R. Bhardwaj	Mr. Sahil Mehta
Lalita Kumari	Formulation and evaluation of transdermal patches of antidiabetic drug	Mrs. Tapsawi Rani Dash	Dr. Nitin Verma

Krishan Dutt Sharma	Targeting pheromones to be invisible for mosquitoes	Prof. Saahil Arora	
Sheetal Sharma	Preparation and evaluation of antiaging herbal formulation	Dr. Arti Thakkar	Mrs. Suchika Sharma
Shivali Rai	Formulation and evaluation of transdermal patches of analgesic drug	Mrs. Tapsawi Rani Dash	Mrs. Swati Sharma
Prerna Thakur	Preparation and evaluation of a polyherbal formulation for Diabetic foot ulcer	Dr. Arti Thakkar	
Mohit Sharma	Quantitative analysis of drugs from marketed products by Chemomatrix.	Prof. Saahil Arora	Mr. Nitin Sharma
Mandeep Chauhan	Process validation of Amicasin injection	Dr. Arti Thakkar	Dr. Nitin Verma
Deepika Sharma	Synthesis and evaluation of nanoprodrugs of 5-fluorouracil conjugated polyphosphazenes for colon targeting	Prof. T.R. Bhardwaj	Mr. Sahil Mehta
Jyoti Rani	Formulation, optimisation and evaluation of Risedronate Microemulsion	Prof. Sahil Arora	Mr. Shubham Goyal
Tushar Pathak	Polyphosphazenes compatibility to antimalarials	Prof. T.R. Bhardwaj	Dr. Ravinesh Mishra

#### **DEPARTMENTAL ACHIEVEMENTS**

- In March 2016 SPES has published first volume of Biannual Journal **“Emerging Trends in Pharmaceutical Sciences”** having ISSN: 2455-7919.
- SPES has been **adjudged as Top Emerging Pharmacy Institute** by AICTE-CII Survey of Industry-Linked Technical Institutes of India. (**5<sup>th</sup> University Industry Congress Global Higher Education Summit & Expo, 2-3 December, 2015**).
- **Pharmacy Council of India** has approved extension of B. Pharmacy affiliation for next three years (September 2017) and also inspected in June, 2016 for increase in Intake to 100 seats.
- All India Council for Technical Education (**AICTE**) has **approved** B. Pharmacy course (100 seats) for academic year **2016-17**.
- SPES has **registered** for Committee for the Purpose of Control and Supervision of Experiments on Animals (**CPCSEA**).
- The research profiles of SPES faculty members reflect the international standards (more than 300 research publications and 18 patents).
- Prof. T. R. Bhardwaj, Dean, SPES was invited as Chairperson of technical session while Prof. Saahil Arora, Head, SPES and Dr. Arti R. Thakkar, Associate Prof. SPES, were invited as resource persons at 2nd annual convention of Association of Pharmaceutical Teachers of

India (APTI), Punjab State Branch, Government polytechnic college, Patiala on 18-19 March, 2016.

- Seven research projects were presented in the form of poster by M. Pharmacy second year students at two days conference at 2nd annual convention of Association of Pharmaceutical Teachers of India (APTI), Punjab State Branch, Government polytechnic college, Patiala on 18th – 19th March, 2016. Ms. Alka Sharma, M. Pharm. 2<sup>nd</sup> year student bagged third prize in poster competition.
- SPES has formed a **Baddi University Pharmaceutical Association (BUPA)** for alumni of SPES students and to promote professional, academic, sports, cultural, and social activities amongst its members.
- Prof. Saahil Arora, Dr. Arti Thakkar and Mr. Sandeep Bana have been approved as “Certified Trainer” for the “Production Chemist”, “Quality Assurance Chemist” and “Medical Sales Representative” Skill Development Programme affiliated to LSSSDC, New Delhi.
- The first batch of LSSSDC certified Skill Development Programme in Production Chemist for B. Pharmacy students of SPES is completed in June, 2016.
- Dr. Arti Thakkar, Associate Professor, SPES received Second Best Poster Award at 7th International Symposium on DMPK – 2015, NIPER, Mohali, India.
- Dr. Arti Thakkar, Associate Professor, SPES, authored a research paper in collaboration with Johnson & Johnson; USA was presented at 2015 AAPS (American Association of Pharmaceutical Scientist) Annual Meeting and Exposition, Orlando, USA.
- Dr. Ravinesh Mishra, Associate Professor, SPES has presented a paper entitled, “Toxicological Safety Assessment of Novel Carbohydrazides: An Anti-tubercular drug” in International Congress of Therapeutic Drug Monitoring & Clinical Toxicology at Congress Centre De Doelen, Rotterdam, Netherlands (11-15 Oct., 2015). Dr. Mishra has received International Travel Grant (US\$ 2000) from IATDMCT.
- BUPA has organized a “Bragging Brain (Quiz Competition)” to honor People’s President Late Dr. A P J Abdul Kalam’s birthday anniversary on 15th October 2015.
- In line with Indian Pharmaceutical Association (IPA), SPES under the banner BUPA celebrated 54th National Pharmacy Week from 15-21 November, 2015. Various events such as:
- SPES has organized “Public Awareness Rally on DRUG ABUSE” with a National agenda “MAKE INDIA DRUG FREE” at Baddi as well as Nalagarh. Mr. Navneet Marwaha, State Drugs Controller H. P. flagged off the rally from the premises of State Drugs Controller, Baddi to the main market Baddi and Nalagarh.
- Blood Donation Camp was organized in association with Rotary Club, Chandigarh.

#### **EXPERTS VISIT FROM INDUSTRY & ACADEMIA**

- Mr. Sanjog from CSR team of CIPLA Foundation, Mumbai has visited SPES on 9th of June, 2016 for exploring QIP programme under CIPLA CSR program.
- Mr. P Krishna Sai, Senior HR Manager, Hyderabad and Ms. Puja Sharma, HR manager, Baddi, Dr Reddy’s Lab Ltd. visited SPES (on 8th January 2016) for possible collaboration with SPES

specifically related to enrollment of Dr Reddy's employee for B. Sc. and LSSSDC-Skill Development Programme.

- Mr. Anurag Mishra, CSR Head, CIPLA Ltd visited SPES on 16th November 2015 to explore the possibility of education for their employees.
- Prof. S. K. Gabhe, Former Head, SNDT, Mumbai and Professor, Poona College of Pharmacy visited SPES on 6<sup>th</sup> September 2015 as an expert from AICTE-CII survey committee.

#### **STUDENTS' ACHIEVEMENT**

Sr. No.	BUPIN	Name	Father's Name	CGPA	Passing	Award
1	11UPH035	PRIYANKA RANA	JASWANT SINGH	9.77	2015	
2	11UPH033	NIYATI DOGRA	SADA RAM DOGRA	9.66	2015	
3	11UPH032	NIHA RAWAT	TEJVEER SINGH	9.63	2015	
4	12UPH027	RAHUL TRIVEDI	SANJAY KUMAR TRIVEDI	9.78	2016	
5	12UPH032	SHIVANK RANA	ARJUN SINGH RANA	9.48	2016	
6	12UPH014	DIVYA ARORA	GARISH ARORA	9.40	2016	
7	14PPH001	RAVNEET KAUR	JAGTAR SINGH RANA	9.71	2016	
8	14PPH002	SARAJ KUMARI	SANT RAM	9.47	2016	
9	14PPH011	DEEPIKA SHARMA	PURSHOTAM SHARMA	9.47	2016	
10	13UPH034	AAKRITI GARG	VINOD KUMAR	9.87	2017	
11	13UPH024	RICHA TYAGI	RAJINDER KUMAR TYAGI	9.87	2017	
12	13UPH035	SHWETA TANWAR	BHARAT BHUSHAN	9.72	2017	
13	13UPH033	ADITI KRISHAN	ANIL KUMAR	9.60	2017	
14	14UPH050	MEHAK JINDAL	SANJAY JINDAL	9.86	2018	
15	14UPH042	RANI JINDAL	RAMAN KUMAR	9.82	2018	
16	14UPH041	GAYTRI KUMARI	RAMAN KUMAR	9.74	2018	
17	15UPH030	AMRITA	PARDEEP KUMAR	10	2019	
18	15UPH062	SHUBHAM	CHAND MOHAN	9.49	2019	
19	15UPH064	SURAJ RAUNIYAR	ASHOK RAUNIYAR	9.37	2019	

## SCHOOL OF MANAGEMENT STUDIES

### PROFILE

The School of Management Studies (SMS) holds the vision of shaping leaders for exigent corporate houses the world over. Since its inception, the school has set standards to help in shaping proficient management students to reach the supreme echelons in the professional world.

SMS aims to create an environment in which students undergo the process of empirical learning through exposure to a range of real world practical problems and utilizing opportunities to apply learned skills in diverse business situations. The project-based learning combined with lectures, case studies, role plays, industrial visits, business games etc. help in learning activities that are long-term, interdisciplinary, and integrated with real world issues and practices. Students are encouraged to work with people of different backgrounds which help in the refinement of skills, and give them an edge over others at the time of summer training and final placements.

### ACADEMIC PROGRAMMES

- **BBA** programme inculcates in students the skills of management through a real-world curriculum in order to prepare them for managing every aspect of a business, and for its growth and stability, depending on the overall goals.
- **B.Com** is one of the most rewarding and promising careers for young aspirants interested in pursuing career in finance and accounts. It will equip students with the knowledge and skills necessary to compete successfully for challenging positions in industry. Our endeavor is to sensitize students to be a thinker and problem solvers, should be able to contribute where ever they work.
- **Master of Business Administration** program offered by the University is a two year degree program. The aim of **SMS** is to make this education relevant to the global needs. The course is designed equip students with a range of analytical, strategic, leadership & business skills that help them operate successfully in the corporate environment. The program offers ample choice of Major and Minor specializations in any of the two selected areas such as:
  - Marketing Management
  - Finance Management
  - Human Resource Management
  - Real Estate Management
  - Retail Management
  - Hospitality & Tourism Management
  - Pharmaceutical Management (in association with Abbott Health Care Pvt. Ltd.)
- **Ph.D** Regular

### PROF. RAJENDER GULERIA DEAN – INDUSTRY INSTITUTE PARTNERSHIP PROGRAMME

- In the present business world, our level of engagement with clients, stakeholders and colleagues determines our success. It should come as no surprise that engagement was one

of the School of Management Studies main priorities in 2015. Many of our engagement activities are designed to provide our students with development and networking opportunities throughout their careers, delivering on our promise of lifelong learning. As always, I have enjoyed meeting and reconnecting with industry at our domestic events in India. For me, it is always rewarding to see the personal and business connections forming between SMS around the country. We also give our students the opportunity to kick-starting innovative research projects. The SMS's new focus is to increase the employability of SMS students. We are closely work with industry leaders to provide valuable employability services to students, including career mentoring, employer-led workshops and internship opportunities. We serve the core industries with highly skilled and critical thinkers, capable of formulating ideas and finding solutions to advance their fields of practice. SMS were actively engaged with the full spectrum of events and programs.

Event/Program	Topic	Date
HR Conclave	I way: HR's Journey into future	8 <sup>th</sup> April 2016
Management Development Programme	Team Building to Enhance Empower and Excel	16 <sup>th</sup> July 2015
Management Development Programme	How do you professionalize and scale up your business?	29 <sup>th</sup> Dec 2015
Management Development Programme	Finance for Non Finance Executives	15 <sup>th</sup> January 2016
Confederation of Indian Industries-Young Indian (CII-Yi)	Innovation in Entrepreneurship	14 <sup>th</sup> Sept 2015
CII Yi Yuva Choupal Activity	Swach Bharat Abhiyaan	7 <sup>th</sup> Aug 2015
	Clean India	27 <sup>th</sup> Aug 2015
CII Yi	Entrepreneurship Summit 2015	20 <sup>th</sup> Oct 2015

- **Consultancy Services**

S. No.	Topic	Status
1	Survey Project on 'Paint Sluge Management' for Shivalik Solid Waste Management	Draft submitted to company
2	Project on 'Productivity Enhancement' for Drish Shoes	under process of finalization

As you read through this year's annual report, you will see how students engagement positively benefits, producing generations of students who are well-equipped to go out in the world to create change. I thank you for your continued support and I look forward to a prosperous and productive 2016-2017.

## ACADEMIC ACTIVITIES

### Seminars/Conferences/Workshops organized

- Work shop was conducted on “**Digital Marketing**” from 20<sup>th</sup> to 24<sup>th</sup> July 2015 for the students of MBA 3<sup>rd</sup> semester which was taken by **Ms. Sangeeta Kumar CEO Digital Marketing School of America**.
- School of Management Studies, Baddi University hosted one day pre-summit workshop conducted by **Confederation of Indian Industries-Young Indian (CII-Yi)** on 14<sup>th</sup> September, 2015 at its campus for the upcoming CII Entrepreneurship Summit 2015 entitled “Innovation in Entrepreneurship”. Speaker for the workshop was **Dr. Rajeev Joshi, Associate Sr. Faculty, Entrepreneurship Development Institute of India (Ahmadabad)**.
- Seminar was organized on 17<sup>th</sup> February; 2016 for the students of School of Management Studies by **Dr. Marko Saravanja, Chancellor, Regenesys Business School, Johannesburg, South Africa** and **Dr. Richa Arora, Country Head of Regenesys Business school-India** on ‘**Emotional and Spiritual Intelligence to Become a Good Leader**’.
- Baddi University signed the MoU with **Regenesys Business School, Johannesburg, South Africa** for Academic Exchange programs including Students Internships, Placements, Faculty and Student Exchange Programs on 17 Feb, 2016.
- School of Management studies organized one day awareness workshop hold by **MSME DI Solan for Setting up Business Incubation Centre** at Baddi University on 23<sup>rd</sup> February 2016.
- One Day Awareness Programme was held on 30<sup>th</sup> June 2016 in the campus of Baddi University organized by School of Management Studies in collaboration with **Ministry of Micro Small and Medium Enterprises, Solan**. In this programme the chairman of **MSME Mr. Mukesh Jain and Assistant Director, MSME Mr. V.P. Meena** delivered lectures on Quality Management Standards and quality technology. Various delegates from different companies participated in this programme. All the dignitaries and faculty members of Baddi University were also present in the programme. MSME declared 4<sup>th</sup> incubator center to the Baddi University.
- School of Management Studies, Baddi University of Emerging Sciences and Technology has signed an MoU with Tally Institute of Learning, Solan on July 8 2016 for the Academic year 2016-2017.

## GUEST LECTURES

In today’s scenario management course is no longer about an exhaustive curriculum, an increasingly competitive business landscape demands exposure beyond books. Industry Interface is perhaps the most critical differentiator for management institutions worldwide. The school strongly believes in establishing a firm foundation for corporate interface through

inviting eminent individuals from industry to interact and share their experiences with students and faculty members regularly.

Date	Guest Speaker	Designation	Organization	Topic
21/8/15	Mr. Y.S.Guleria	G.M I.R	TVS Motors	Career Challenges for students after professional courses
31/8/15	Mr.O.L Narayana	Commercial Head and Chief Finance Officer	Indorama Industries Baddi	Skills for Business Networking
15/10/15	Ms Ela Rathore Mr Raman Angra	Motivational speaker Head Hr	Art of Living Alkem Laboratories	VISIONING FOR INDIA dream and motto of our Late President.
19/1/16	Mr. Saurabh Jaiswal	Director	TIME Institute Chandigarh	Skills Required for Entrepreneurs
16/3/16	Mr. Ashutosh Kumar	Head Marketing,	Reliance Jio (Infocomm Limited)	Discover yourself" and "digital marketing
27/4/16	Mr.A.S. Sharma	Director	Juris HR Pvt. Ltd.	'Industry's Expectation from Management's Graduates'

## INDUSTRIAL VISITS

Industrial visits are a crucial part of MBA curriculum. It provides an opportunity to the students to comprehend the actual implementation of industry and get exposed to various work cultures and guidelines followed by the industry. The students at SMS Department have visited following companies in session

Date	Name of Company	Class	Semester	Faculty Accompanied
26/8/15	Alkem Laboratories Ltd	BBA/B.C OM	3 <sup>rd</sup> and 5 <sup>th</sup>	Mr. Rajeev Kumar
28/8/15	Colgate Palmolive (India) Limited	MBA	3 <sup>rd</sup>	Ms. Ujjal Sandhu
3/9/15	Abott Healthcare Pvt Ltd., Baddi	MBA	1 <sup>st</sup>	Mr. Sandeep Bana
9/9/15	Indsphinx Precision Ltd. Parwano	MBA	1 <sup>st</sup>	Ms. Tamanna

1/10/15	<b>P A Pionis, Dhrampur</b>	MBA	1 <sup>st</sup> & 3 <sup>rd</sup>	Ms. Varsha Gupta, Dr. Nisha Chanana Mr. Rajender Guleria
4/3/16-6/3/16	<b>Compucom Jaipur Jaipur</b>	ALL	ALL	Dr. Nisha Chanana, Mr. Sandeep Bana, Ms. Reetu Parmar Ms. Kanika

## EXCURSIONS

- Industrial visit was organized for the students of MBA 1<sup>st</sup> and 3<sup>rd</sup> semester on 1<sup>st</sup> October, 2015 to **P A Pionis, Dhrampur** including **Picnic to Kasauli**. Faculty members Ms. Varsha Gupta, Dr. Nisha Chanana, Ms. Ujjal Sandhu, Ms. Reetu Parmar and Ms. Alka Sood along with Mr. Rajender Guleria accompanied the students.
- 3 days **educational trip** was organized for the students of School of Management Studies to Jaipur including industrial visit to **Compucom Jaipur**. Faculty members Dr. Nisha Chanana, Mr. Sandeep Bana, Ms. Reetu Parmar Ms. Kanika from School of Management Studies and Ms. Mrinal from Department of Computer Sciences accompanied the students.

## LIVE PROJECTS

- 10 students of MBA 1st semester went to Big Bazar for special event **6 Days of Maha Bachhat in Big Bazar** starting from 21<sup>st</sup> to 26<sup>th</sup> January 2016.
- 7 students of MBA 1st and 3rd semester were selected for winter internship in **Adiya Birla Money Mart Ltd.**

## RESEARCH ACTIVITIES

### Prof. Dr. George Thomas

#### Conference Attended

- Dr. George Thomas attended two days International Conference on 4<sup>th</sup> and 5<sup>th</sup> February, 2016 at GD Geonka University on 'Flattening of the Globe: Propelled by E-Commerce and Supply Chain' and chaired a technical session on the marketing area.

#### Paper Publications

- 'Indian Higher Education System: Issues, Challenges and Initiatives' was published in University News- A weekly Journal of Higher Education, 54(05) Feb 1-7, published by Association of Indian Universities, ISSN No. 0566-2257 2016.
- 'Relationship between Service Quality and Customer Satisfaction in Automobile Industries' in Conference Proceedings titled 'Flattening of the Globe Propelled by E-Commerce and Supply Chain' with ISBN No. 978-93-85777-21-9 March 2016.

- 'Role of Demographic characteristics on Emotional Intelligence: An analytical study among employees of public sector banks in Madhya Pradesh published in GD Goenka Business Review ISSN:2394-8639, vol. 1 Number 2, July 2015- December 2015.
- 'Relationship between service quality and customer satisfaction in Automobile Industry' published in the book titled 'Flattening of the Globe Propelled by E-Commerce & Supply Chain' published by Excel India Publishers, New Delhi, ISBN: 978-93-85777-21-9, 2016
- 'Relationship between Emotional Intelligence and Job Satisfaction: An Analytical Study among the Employees of HDFC Bank, Madhya Pradesh' published in the edited book titled 'International Business: Trends, Issues, & Challenges' published by Bharti Publications, New Delhi, ISBN: 978-93-85000-21-8, 2015
- 'Effect of Customer Satisfaction on Customer Loyalty in Indian Hotel Industry' published in the edited book titled 'International Business: Trends, Issues & Challenges' published by Bharti Publications, New Delhi, ISBN: 978-93-85000-21-8, 2015
- 'FDI in Retail Sector: A Boon or Curse' published in the edited book titled 'International Business: Trends, Issues & Challenges' published by Bharti Publications, New Delhi, ISBN: 978-93-85000-21-8, 2015

#### **Dr. Poonam Bassi**

##### **Workshop Attended**

- "How to Write Traditional, Short and Mini Cases" held at L.M Thapar University on 27<sup>th</sup> and 28<sup>th</sup> November 2015.

##### **Paper Publications**

- 'A retrospective view of foreign direct investment in India' in The Catalyst- Journal of Management Vol. 1 Issue 1, ISSN 2455-7929, March 2016 pp. 62-68.
- 'Self Help Groups- An Effective Approach towards Women Empowerment' in 'International Journal in Management & Social Science' ISSN 2321 1784.vol 3 Issue 7 July 2015 pp 365-373.

#### **Ms. Varsha Gupta**

##### **Workshop Attended**

- "How to Write Traditional, Short and Mini Cases" held at L.M Thapar University on 27<sup>th</sup> and 28<sup>th</sup> November 2015.

##### **Live Project**

- Written a case study on 'Impact of Merger and Takeover on 'Financial performance of Him Techno forges' Limited.
- Conducted survey of manufacturing concerns using primer and paint for checking the market potential of recycled material in Himachal Pradesh. The report on paint sludge conversion system was prepared and submitted to Shivalik Solid Waste Management.

**Ms. Bhavna Sharma**

**Paper Publications**

- 'Impact of Social Media on Consumer Socialization of Children' in 'Zenith International Journal of Business, Economics and Management Research' ISSN 2249 8826 vol 5, Issue 8 August 2015 PP. 110-120.
- 'A Study on the Impact of Green Marketing Practices on Consume Buying Behaviour in Chandigarh' ISSN No. 2321-1784 Vol 4, Issue 3 March 2016.
- 'A retrospective view of foreign direct investment in India' in The Catalyst- Journal of Management Vol. 1 Issue 1, ISSN 2455-7929, March 2016 pp. 62-68.

**Ms Rajeev Kumar**

**Conference Attended**

- Presented a research paper titled "Achieving Success in Management by Self Development through Spiritualism and Rajayoga Meditation; A Case Study of Some Selected Organizations" in 9th international conference on "Sustainable Business Growth "at Gian Jyoti Institute of Management and Technology, Mohali on 6<sup>th</sup> June 2015.
- Presented research paper titled 'Impact of Social media on Indian Society' in 1<sup>st</sup> International conference 'Srijan 2016' on 'Digital India-Stimulating India's Growth Under Uncertainties and Challenging Environmental Issues' on March 31 2016 at CGC Jhanjeri Campus Mohali.

**Paper Publications**

- 'Vedic Wisdom: A Key to Stress Free Life' in proceedings of national conference titled 'Contemporary Social Issues' ISBN 978-81-906474-7-2 (2015).

**Ms. Alka Sood**

**Paper Publications**

- 'Role of Human Resource Accounting in India in International Journal of Advanced Scientific Research and Management Vol 1, Issue 2, February 2016.

**Ms. Reetu Parmar**

**Paper Publications**

- 'Work Life Balance- A Case Study of Himachal Pradesh State Electricity Board Limited in The Catalyst- Journal of Management Vol. 1 Issue 1, ISSN 2455-7929, March 2016.

## STUDENTS' ACHIEVEMENT

Class	I	II	III
MBA II Year	Mr. Mukesh Kumar (9.15)	Ms. Suman Sharma (8.98)	Ms. Priyanka Sharma (8.46)
BBA III Year	Ms. Manu Thakur (8.16)	Ms. Shalini Thakur (6.18)	Mr. Sahil (5.08)
B.COM III Year	Mr. Suraj Attri (9.60)	Mr. Rakesh Kumar (9.33)	Mr. Devender (7.03)

## PLACEMENTS (MBA Students)

Name of Student	Name of Company
Suprabha	HDFC
Dipika	HDFC
Prince	Reliance
Kamandeep Kaur Saini	INDUSIND
Dimple	HDFC
Kundanlal	Exide
Anamika,	Airtel
Vijaylaxmi	HDFC
Priyanka Sharma	Hail Himalaya
Ankur Sharma	HDFC
Arun Kumar	Axis Bank
Sandeep Kumar	Axis Bank
Abhishek Kumar	Axis Bank
Vineet Kumar	Axis Bank

## OTHER ACTIVITIES

### MANAGEMENT DEVELOPMENT PROGRAMME

1. Management Development Programme was organized on 16<sup>th</sup> July 2015. Title of the MDP was **"Team Building to Enhance Empower and Excel"**. The programme was divided in to three sessions:
  - Building Team Culture for Sustaining Competition
  - Best Practices for Team Performance
  - Understanding and Bringing Generations Together for Growth
2. School of Management Studies in collaboration with BBN Industries Association hosted a Management Development Programme entitled **"How do you professionalize and scale**

**up your business?”** Various eminent top profile people from distinguished organization like Vardhman, Him Teknoforge. JB Conductors, Drish Shoes, Asian Cement, TVS motors and many more of BBNIA zone participated in the workshop. Resource person for the workshop was Mr. Harsh Chopra, who is the founding partner of ‘Partners 4 Growth’.

3. Management Development Programme was organized successfully by the School of Management Studies on 15<sup>th</sup> January 2016. Title of the MDP was **“Finance for Non Finance Executives”**. The programme was divided in to three sessions:

- Introduction to Finance, Financial Statements and Business Analysis
- Fundamentals of Cost and Working Capital Management
- Relevance and Preparation of Corporate Budget

### HR CONCLAVE

School of Management Studies organized 6th HR conclave on ‘I way: HR’s Journey into future’ on April 8, 2016. The day started with inaugural session hosted by Prof. (Dr.) George Thomas, Dean School of Management Studies and Mr. Rajendra Guleria, Dean IIPP, in welcoming eminent personalities from the corporate world. Mr. Alok Sharma, Managing Director-Forging India Pvt. Ltd was Chief Guest of the session and Hon’ble Vice Chancellor Prof. (Dr.) Shakti Kumar graced the occssion as Guest of Honor. The conclave started in two session wherein first session focused on ‘Re inventing HR as Digital HR- Transforming organization and second session highlighted the concept based on ‘ Digital HR and carbon footprint- leaving behind the legacy of clean environment’. Mr. A. Puri, from Vardhman Textile, Mr. Manish Singla, Group Manager, Abbott Healthcare Pvt. Ltd, Mr. Ajay Pasrija, DGM, Godrej consumer products ltd, Ms. Tanu Mehta, L&D Head, Sentis Pharma, Mr. Y S Guleria, General Manager, TVS Motors, Mr. Deepak Sharda, Jupiter International and Mr. Amit Kaushik, AVP- HR Auro Spinning Mills shared their valuable experiences during the HR Conclave.

### CII-YI ACTIVITIES

- Students of School of Management Studies initiated the first CII Yi Yuva Choupal Actitivity, carrying forward message of SWACH BHARAT ABHIYAAN by our honorable Prime Minister Mr. Narendra Modi . They enthusiastically swepted the floors, cleaned the walls and furniture of the School.
- On 26<sup>th</sup> August 2015, Young leaders of School of management studies (CII-YI) initiated the 2nd phase of cleaning the Baddi University by cleaning the civil engineering department of University. A special facilitation ceremony was organized by chaupal for thanking the cleaners of the University for their contribution to **CLEAN INDIA**. Chief Guest Honourable vice chancellor of the university Prof (Dr) Shakti Kumar, worthy guest Mr Nitin Aggarwal vice - chairman CII -YI Solan chapter and Mr Saransh Sharma Executive memeber CII graced the occasion with their presence.
- Students of School of Management studies (SMS) set a benchmark by excelling in Entrepreneurship Summit 2015 at CII - Northern Region Headquarters, Sec - 31Chandigarh.

They got golden opportunity for sharing their Business Plans in front of Project head EDI (entrepreneurship development institute) Venture Capitalist, Angel Investors & representative of government of Himachal Pradesh. They were full of zeal and confidence throughout the session and even got Awards of Appreciation for their innovative ideas!

- Students of School of Management Studies attended the annual session meeting of CII-Yi , Solan Chapter at Hotel Gianz on 19<sup>th</sup> march 2016 . They also gave presentation to all the officials of their achievements since the span of 1 year.

### **MANAGEMENT FEST - PRABANDHOTSAV 2016**

- Management fest 'Prabandhotsav 2016-Confluence of Talent' was organized by the School of Management Studies on 29<sup>th</sup> March 2016. In which 8 Colleges/ Universities, approx 200 students participated in various literary, cultural and fine arts events.

### **INTRA DEPARTMENTAL ACTIVITIES**

- Across department presentations were given by faculty members and Dean School of Management Studies to motivate B.tech and B.Pharm students of Baddi University to enter in to MBA course.

### **PRE PLACEMENT ACTIVITIES:**

Pre-placement activities are done to increase the employability of MBA 4th semester students. During session 2015-16 various sessions were taken by faculty members to make the students employable.

<b>Topics</b>	<b>Faculty</b>
How to Read Better and Faster	Ms. Viveka
How to WRITE Better and Faster	
How to MEMORIZE Better and Faster	
How to make NOTES Better and Faster	
Verbal Communication Skills	Ms. Ujjal Sandhu
Written Communication Skills	
Non-Verbal (Body Language) Communication Skills	
Listening Skills	
Choosing a Career	Ms. Kanika Sharma
How to Hunt for a Job	
Making Great Resumes and Designing Cover Letters	
Answering Frequently Asked Questions	
Group Discussions	
Follow Up Procedures	

## **SCHOOL OF SCIENCES**

### **PROFILE**

The School of Sciences formerly known as Department of Applied Sciences and Humanities was established in Dec. 2015 with the inception of IEET. School of Sciences is dedicated to showcase the application of sciences in varied fields. The school strives to impart quality education in the area of Mathematics, Physics, Chemistry and Humanities for the future technocrats and researchers.

### **COURSES OFFERED**

- B. Sc. (Non Medical) (Three years regular)
- B. Sc. (Chemistry-Hons) (Three years regular)
- M. Sc. (Chemistry) (Two years regular)

### **LAB FACILITIES**

- Chemistry lab
- Physics lab
- Communication and Professional Skills lab

### **GUEST LECTURE**

- Dr. C. Ghanshayam (Chief Scientist of CSIO, Chandigarh) delivered an expert talk on sensor technology and highlights various aspects of Sir C. V. Raman's life on National Science Day

### **INDUSTRIAL VISITS**

S.No.	Semester	Place	Date of Visit
1	2 <sup>nd</sup> /4 <sup>th</sup> (M.Sc)	Galpha Pharma Limited Baddi	9/10/2015
2	2 <sup>nd</sup> /4 <sup>th</sup> (M.Sc)	Morpen Labs Limited Baddi	21/11/2015

### **FACULTY PUBLICATIONS**

#### **Dr. Vijender Singh**

##### **Paper Published**

- 'Z-scan: A simple technique for determination of third-order optical nonlinearity', AIP Conf. Proc. **1675**, 030095 (2015); doi: 10.1063/1.4929311.

#### **Dr. Gitanjali Sharma**

##### **Paper Published**

- 'Removal of Dyes from Textile Industry Effluent: A Review', SSRG International Journal of Humanities and Social Science, 59, 2015

#### **Dr. Pooja Chauhan**

##### **Paper Published**

- 'Measurements of Natural Radioactivity in Some Indian Geological samples', Proceeding of Geo- Hazards', Narosa Publication, (2015) 49-56.
- 'The study of fertilizers induced radiological impact on plants', International Journal of advanced scientific research and Managements. Vol. No. 1 issue 2 February 2016.

- 'Alpha radioactivity Enhancement in plants using chemical fertilizers', International Journal of advanced scientific and technical research. Vol. No. 2 issue 6 March 2016.

#### **Workshop/Conference attended**

- Dr. Pooja (Assistant Professor) presented a paper in 19th National Conference on Solid State Nuclear Track detector and their applications (SSNTDs-19) 19-22 Nov, 2015

#### **Dr. Pallavi Bhardwaj**

##### **Paper Published**

- 'Translation: Some Practical Problems and Methodology', Translation: Theory, Practice and the Challenges (Book) Ed. Rekha Sharma, (2015) 109-118.
- 'The Resistance of Preeminence and Serenity: A Grain of Wheat', International Journal of Innovative Research and Development, 4(8) (2015) 24-28.
- 'Hopes and Hurdles: Why Are We So Blest?', The International Journal of Humanities and Social Studies, III(VII), (2015) 46-50 .
- 'The Wounded Psyche of Africa: Fragments', The International Journal of Humanities and Social Studies, III(VI) (2015) 45-51.
- 'The Crisis of Consciousness: Petals of Blood', International Journal of Innovative Research and Development, 4(6), (2015) 216-221.
- 'The Dynamics of Change in African Sensibility: Anthills of the Savannah' International Journal of Innovative Research and Development, 4(3), (2015) 345-352.

#### **Dr. Renu Bala**

##### **Paper Published**

- 'On the characterization of magnetohydrodynamic triply diffusive convection', J. Magn. Magn. Mater, 377(2015) 378–385.
- On arresting the Complex Growth Rates in Magnetohydrodynamic Triply Diffusive Convection', Int. J. Fluid Mech. Res, 42(5), (2015) 391-403.
- 'Upper Limits to the Linear Growth Rate in Triply Diffusive Convection', Res. J. Eng. Tech., 6(1), (2015) 47-49.
- 'Characterization of rotatoryhydrodynamic Triply Diffusive convection', ZAMP, (Springer), DOI 10.1007/s00033-015-0520-3.
- 'An Energy Relationship in Magnetohydrodynamic Triply Diffusive Convection Problem', International Journal for Research in Applied Science & Engineering Technology (IJRASET),3, (2015) 89-92.

#### **Mr. Gourav Gupta**

##### **Paper Published**

- 'A note on "A new method for solving fuzzy linear programming problems based on the fuzzy linear complementary problem (FLCP)', International Journal of Fuzzy Systems, Vol. 18 (2016) 333-337.
- 'A note on "Ranking generalized exponential trapezoidal fuzzy numbers based on variance"', Journal of Intelligent and Fuzzy Systems', Vol. 31 (2016) 213-215.
- 'A note on "Ranking generalized exponential trapezoidal fuzzy numbers based on variance', Journal of Intelligent and Fuzzy systems, Vol. 31 (2016) 213-215.

**Workshop/Conference attended**

- Mr. Gaurav Gupta (Assistant Professor) attended an International Conference on “Recent Advances in Pure and Applied Mathematics” Organized in Istanbul Commerce University, Istanbul, Turkey during June 03-06, 2015 with financial assistance by Science and Engineering Research Board (SERB) (DST).  
Mr. Gaurav Gupta (Assistant Professor) attended two Days workshop on "Scientific Writing using Latex" on 13-14 July 2015, held in Thapar University, Patiala.

**Ms. Nisha Kumari****Workshop/Conference attended**

- Ms. Nisha Kumari (Lecturer) attended an advanced level workshop on “Integral Equation Solvability Analysis and Application”. Jaypee University of Information Technology, Waknaghat, Solan (H.P). From 19 Oct – 25 Oct. 2015

**ACHIEVEMENTS OF THE DEPARTMENT**

- Dr. Gitanjali Sharma (Associate Professor) joined PDF (Theoretical Chemistry) at Wales University UK.
- Ms. Nidhi Gupta (Assistant Professor) joined Ph.D. (Chemistry) at Rayat and Bahra University Chandigarh.
- Ms. Anu Kapoor (Assistant Professor) joined Ph.D. (Physics) at MM University Mulana Ambala.
- Mr. Deepak Verma (Assistant Professor) joined integrated M.Tech-Ph.D. program (Mathematics) at IIT Kharagpur WB.
- Mr. Gaurav Gupta (Assistant Professor) submitted Ph.D. Thesis (Mathematics) at Thapar University Patiala.

**ACTIVITIES ORGANIZED BY THE DEPARTMENT****National Science Day Celebration**

In an effort to inculcate scientific temperament among students, 26<sup>th</sup> February was observed as National Science Day in Baddi University of Emerging Sciences and Technology in lieu of 28<sup>th</sup> February.

School of Sciences headed by Dr. Vijender Singh, Associate Dean, held activities which include Debate, Poster and model Exhibition cum Competition, Cultural Event and an Expert Lecture involving undergraduate, graduate students and teachers. The contribution of School of Sciences fraternity was highly appreciated.

The pivotal theme for the said event was scientific in nature. The proceedings for the day embarked with an expert lecture by Dr. C. Ghanshyam. The eminent Scientist shared his ideas on ‘Sensors’ with students and faculty members. Students enthusiastically participated in Model and Poster exhibition followed by debate and cultural event. The day accomplished its motive to spread a message of scientific application in daily life of the people.

### Literary Society

Literature is one of the most interesting and significant expressions of Humanity. A Literary Society is the most proper form of introduction of our order into any state where we are yet strangers. An exhilarating Open House Discussion was organized by Literary Society at the University's seminar hall on 28<sup>th</sup> Oct. 2015, which attracted many young minds to express their opinions and views on the topic, "India in Upcoming Years." Literary Society too hosted its one more fantabulous event on Matribhasha Diwas: Debate on "Freedom to Speech." The events were graced by the presence of various luminaries of the University.

### University Annual Magazine: Abhivyakti 2016

Annual Magazine - Abhivyakti 2016 took its present form under the banner of Literary Society. This magazine is a pedestal to exhibit the literary expertise and inventive ideas of students as well as teachers.

### STUDENT ACHIEVEMENT

#### Academics

#### a) B.Sc (Non-Medical)

S.No	BUPIN	Student's Name	Father's Name	CGPA	Rank
1	13USC001	Megha Sharma	Sh. Sudarshan Sharma	9.09	Gold
2	13USC004	Ritika Joshi	Sh. Harimohan Joshi	8.85	Silver

#### b) M.Sc (Chemistry)

S.No	BUPIN	Student's Name	Father's Name	CGPA	Rank
1	i) 14PCH015	Mehak Jain	Sh. Naresh Jain	9.90	Gold
	ii) 14PCH021	Priyanka	Sh. Randhir Singh	9.90	
2	14PCH029	Amandeep Kaur	Sh. Jaswant Singh Rana	9.73	Silver
3	14PCH029	Sheelu	Sh. Madan Lal	9.57	Bronze

### STUDENT PLACEMENT (M.Sc. Chemistry)

Total Students	No. of Interested Students the Campus Placement	Placed Students	Name of Company
29	12	9	Torrent Pharma Ltd. (4), Macleod Pharma (4), Ayurved (1)

### LIST OF DISTINGUISHED EXPERTS VISITED DURING THE YEAR

- Dr. C. Ghanshayam (Chief Scientist of CSIO, Chandigarh) visited BUEST (School of Sciences) on National Science Day on 26<sup>th</sup> Feb 2016.

## UNIVERSITY ACTIVITIES

### 1. INTERNATIONAL WOMEN'S DAY

International Women's day was celebrated in the university campus on 8<sup>th</sup> March, 2016. Honourable Vice chancellor Prof. (Dr.) Shakti Kumar has graced the occasion as Chief Guest.

### 2. BLOOD DONATION CAMP

**Blood Donation Camp** was organized on April **27, 2016** in the University campus. This year too BUEST has donated a worthy number of units to the Blood Bank Chandigarh.

### 3. GO GREEN GROW GREEN

A seminar on GoGreen-GrowGreen was held on May 12, 2015 in the Baddi university campus. The idea behind this seminar was to pursue knowledge and practices that can lead to more environmentally friendly and ecologically responsible decisions and lifestyles, which can help protect the environment and sustain its natural resources for current and future generations. On this day, Baddi University received the "International Green Flag" award.

### 4. INTERNATIONAL YOGA DAY

Yoga is a physical, mental, and spiritual practice attributed mostly to India. Baddi University of Emerging Sciences and Technology (BUEST) has celebrated the 2<sup>nd</sup> **International Yoga Day** at BUEST campus on **21 June, 2016**. Patanjali Yoga Centre, Chandigarh team had visited the BUEST campus for Yoga.

### 5. MILAN-2016

Baddi University has organised a program **Milan-2016** to felicitate the newly elected members of the wards of the region. This was a beautiful instance set by BUEST for promoting community strength.

### 6. HUMAN VALUES AND PROFESSIONAL ETHICS WORKSHOP

Inculcating the human values and ethics in every student and faculty member is the prime goal of BUEST. Keeping the goal vivacious, the university has organised a Three Day Workshop on "**Human Values and Professional Ethics**" ADGP Shimla, **A.P Siddiqui** was the Chief Guest for the workshop who promoted such kind of events throughout his career. In his address he talked about the inherent values and ethics which need to be ignited for the prosperity of the nation and self as well.

### 7. TEACHERS DAY

Baddi University of Emerging Sciences and Technologies (BUEST) has organised a function on the eve of Teacher's Day. Shri. Acharya Dev Vrat, Governor of Himachal Pradesh was the chief guest on the occasion. He said employment oriented educational policy was the need of the hour in order to reduce unemployment in society.

He underlined the importance of our traditional Guru Shishya Parampara and added that young generation should be made aware of our rich traditional values and cultural heritage which was known across the world.

He said besides the knowledge of science and technology, students should be well versed with our glorious history, rich traditions and culture which should be a part of the curriculum.

He also appreciated the unique initiatives of the university like academic adoption which helps students in carving out a career while studying.

He said in order to strengthen the education system, teachers and students should be aware of their duties.

He urged the young generation to refrain from drugs and intoxicants and added that the responsibility of building a strong and vibrant nation rested on them which was possible through hard work and dedication.

The Governor honoured Dr Himmat Singh Sinha, ExProfessor and Head of Philosophy Department, Kurukshetra University, for his distinguished services in the field of education.

Prof.(Dr.) Shakti Kumar, ViceChancellor, BUEST, welcomed the Governor and presented a report about the activities of the university.

Mr.Gaurav Ram Jhunjunwala, Secretary, governing body of the BUEST, MLAs Ramkumar and KL Thakurand officials of the local administration were also present.

#### **8. Visit by Hon'ble Minister of Industries- Shri Mukesh Agnihotri**

Baddi University of Emerging Sciences and Technology has organized the release ceremony of University Research Journals Pharmacy and Management, launch of Baddi University Li-Fi broadcast and Scholarship Awards ceremony under the 'Betiyon ki Bari scheme'. Shri Mukesh Agnihotri, Hon'ble Minister of Industries, Labor & Employment, Parliamentary Affairs and Information & Public Relations, Government of Himachal Pradesh India had Graced the occasion.

## INITIATIVES TAKEN BY UNIVERSITY

### Betiyan Ki Baari

'BETIYON KI BARI' (BKB) is BUEST's own unique initiative to promote professional education among girl students of Himachal Pradesh, to enable them to carve out a distinct niche for themselves and savour the fruits of growths and industrialization. BKB is an exclusive scholarship scheme for girl students.

### IDEA Factory

IDEA FACTORY which was inaugurated by Prof. (Dr.) Kalam, offers a combination of labs and workshops and is amply equipped to cater each stage of product development cycle- brainstorming, designing, prototyping & testing. It is an all-encompassing incubation center to convert original thoughts into products.

Patent	Application No.	Docket No.	Date of Submission
Helmet Wear Warden (HWW)	3901	13170	18.12.2012
Pneumatic Crown Safety Redefined	3902	13171	18.12.2012

## ONGOING PROJECTS

- Wheel chair that can climb up the stairs (customized for BUEST)
- Mosquito repellent working on Inverter technology (A handy device)
- A noise filtering device enabling a group of person to talk while sitting around a table in noisy environment
- Anti-forget key device
- Knee cap that can charge a personal mobile while on work

### Academic Adoption

This venture is partnership with local corporate which enables the industry to identify budding talent at a nascent stage. The students in turn, on the basis of their performance in the selection process, have the opportunity to be adopted by the corporate world on the first day of first, second or third year of their study on the campus.

### IBM-ICE Program

IBM-ICE is the Innovation Centre of Excellence (ICE) at BUEST powered by the industrialized expertise of the IBMers of ICE team. The aim of this program is to develop a customized industry oriented curriculum that skillfully nurtures and moulds the students into industry-ready professionals by focusing.

## **PUBLICATIONS OF THE UNIVERSITY**

### **BOOKS/Journals**

#### **Journals**

School of Management Studies launched 1st Issue of Management Journal The Catalyst- Journal of Management Vol. 1 Issue 1 in March 2016.

In March 2016 SPES has published first volume of Biannual Journal “Emerging Trends in Pharmaceutical Sciences” having ISSN: 2455-7919.

#### **Books/ Conference Proceedings**

- A National conference entitled “Innovations in Civil & Mechanical Engineering” (EZUCURSION 2016) was held on 12th May 2016
- National Conference on “Recent innovations in Electronics, Electrical and Computer Engineering-RIEECE2015” was held on 9th May, 2016

### **SPORTS**

#### **LAKSHAY 2016**

This year BUEST hosted Lakshay2016- A Three Day Interuniversity Sports meet. Students of various institutes participated in the meet and made Lakshay a thriving event. Renowned Punjabi Singers- Gurikh Bath and Nimrat Kaur have made their way to BUEST for the promotion of Box Cricket League (Punjab). They too played a friendly cricket match with university students and promoted sports as an essence of a healthy life.

Following the chain of fitness BUEST has organised Annual Athletic meet in the month of April wherein students as well as faculty members have shown their potentials.

### **CULTURAL ACTIVITIES**

#### **EMANATION 2016**

An annual Techno-Cultural Fest planned and organised by the students is based on the objective to give students an opportunity to explore their own universe other than sheer academics. This annual fest provides a perfect pedestal to the students as well as faculty members for showcasing and recording their extra-curriculum talents. This year Education Minister Sh. G.S Bali has honoured BUEST by accepting the proposal of being the Chief Guest for the said event. Honourable Minister has bestowed the students and faculty members with his experienced and insightful words. The later half of the day was made memorable by the marvellous performances of famous Himachali Natti King- Kuldeep Sharma and renowned Punjabi Singer- Ranjeet Bawa. The students of BUEST too shared their talents on the stage through various amusing acts.

**Sangam 2015-16:** It is an annual cultural platform organized by Senior students to felicitate their juniors.

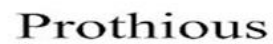
## PLACEMENT HIGHLIGHTS

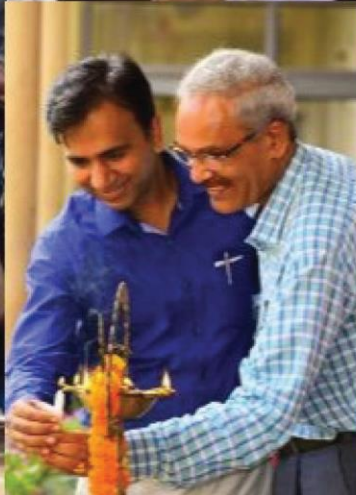
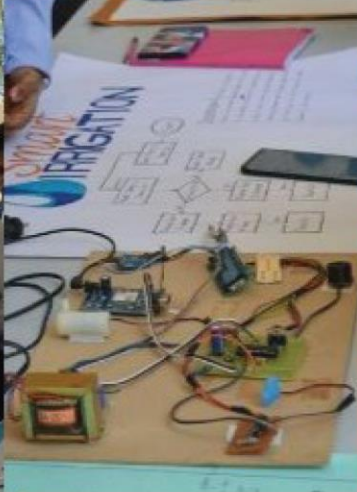
### Campus Recruitment

Corporate being the ultimate destination of the young professionals of BUEST, intensive facilitation is provided to the students for starting their career with the top notch Corporate Houses. Each year, the number of companies visiting BUEST for the Campus Recruitment is increasing tremendously.

- Successful placement of 100% eligible students of 2015 batch.
- Nodal Canter for the recruitment for Indian Navy and Indian Army from the past many years.
- Dedicated support to the students for the Summer Placements.
- Goal of achieving 100% placement for 2016 batch round the corner.







# **Baddi University**

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