



**MAHARAJA RANJIT SINGH  
PUNJAB TECHNICAL UNIVERSITY  
BATHINDA**



MRSPTU

**ANNUAL REPORT  
2015-16**

## VISION

- *To contribute towards the state, the nation and the world through advancement for attaining excellence in technical education and research, and to provide quality human resource having high professional and ethical conduct to serve the needs of the industry and society.*

## MISSION

- *To provide a conducive and inspiring environment for promoting advancement in technology and research by fostering freedom, employment, commitment, creativity and innovation.*
- *To provide competent and highly skilled professionals and entrepreneurs to meet the requirements of the industry and society for discovery and dissemination of knowledge.*
- *To inculcate high moral, ethical and professional values and standards amongst the students.*
- *To promote research and development in various fields of technical education and establishment of Centres of Excellence in collaboration with national and international institutions, industry and agencies.*



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BATHINDA**

**ANNUAL REPORT 2015-16**



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## VICE CHANCELLOR'S MESSAGE



Maharaja Ranjit Singh Punjab Technical University (MRSPTU), Bathinda, is an University established by Govt. of Punjab. Our mandate is advancement of technical education and development. The mission of MRSPTU is to promote excellence in technical and scientific education and research. The University offers a wide array of courses in Engineering and Technology, Sciences and Management through its constituent and affiliated colleges. All these institutes have well equipped laboratories and qualified faculty for delivering quality education and training. There are almost 1 lakh students enrolled in all these institutes.

The objectives of the academic programmes are to produce technically skilled manpower in appropriate areas and to impart the highest level of education in latest technological streams to produce competent technical and supervisory level manpower. Advanced research programmes leading to Ph.D. are also available. The University has also introduced finishing school courses including courses on soft skills to brighten the employability potential of students. We lay great stress on placements. Our Training & Placement Cell is quite dynamic and impressive. Many companies have visited the University Campus and its Affiliated institutions. Many joint fairs have been organized. More than 45 companies have visited and placed more than 270 students.

MRSPTU, Bathinda lays equal emphasis on sports and extracurricular activities for holistic development of the students. A number of national and international conferences are regularly organized every year on campus and in affiliated colleges wherein a large number of experts from within country and abroad participate. I personally wish to assure all that we leave no stone unturned to ensure high quality education, training and holistic development of students and that they have made a right choice and wish them a bright future ahead.

I extend my best wishes to the students, staff and faculty who are a part of our University and to those who seek to join us in our mission of sharing and creating knowledge and contributing to the growth of not only our society and nation but humanity at large.

I would like to congratulate the IQAC of the University for publishing first Annual Report of MRSPTU, Bathinda with all its pomp and glory. I am pleased to report that University had an outstanding year in 2015-16, despite a volatile and sometimes difficult environment for the higher education sector and we continue to live to our reputation as one of the most innovative University. I am delighted to present the annual report of the same before you.

**Prof.(Dr.) Mohan Paul Singh Ishar**  
Vice Chancellor,

Maharaja Ranjit Singh Punjab Technical University, Bathinda

## REGISTRAR'S MESSAGE



On behalf of the faculty, students and staff, I welcome you all to the Maharaja Ranjit Singh Punjab Technical University (MRSPTU). I am honored and raptured to serve as the Registrar of the University. You can also go through the official website to see the facets of this technical university. MRSPTU is the State technical University of Punjab located in Bathinda. It was established in 2015 to promote technical, pharmaceutical and management education in the state of Punjab at the degree level and above. Being an education and research University, it has a mandate to set up centers of excellence in emerging technologies for promoting training and research & development in various areas.

This would have not been possible without the help of highly qualified and dedicated faculty, which is considered to be the best in the region. We understand the fact that for the success of any educational institute it requires to have all required courses, infrastructural facilities, qualified as well as dedicated staff and most importantly a kind of 'Real World' ambience where student can learn and experience to face the outside challenges. Our aims is to offer the best educational facilities to students while evolving itself to the changing educational needs of the corporate world. We groom our students to develop into individuals with strong ethic values and also focus on enriching their social etiquettes. MRSPTU aims to develop highest quality minds which are always questing for new ideas or inventions that can serve the society. Apart from the educational facilities, the University strongly focuses on extracurricular activities for the all round development of its students.

Inter-College as well as Inter-University, sports, cultural and technical events at the state & national levels are regularly organized to provide requisite opportunities to the students. Students of our affiliated and constituent colleges have won top prizes in many national level competitions held in premier institutions of the country including IITs.

I wish you lots of good luck and a successful journey of quality education, training and learning being the member of MRSPTU family.

**Prof. (Dr.) Jasbir Singh Hundal**

Registrar,

Maharaja Ranjit Singh Punjab Technical University, Bathinda



## EDITORIAL BOARD

### EDITORS



**Prof. (Dr.) Ashish Baldi**  
Professor & Head  
Department of Pharmaceutical  
& Technology



**Prof. (Dr.) Jyoti Saxena**  
Professor  
Department of Electronics  
& Communication Engineering



**Prof. (Dr.) Ashok Kumar Goel**  
Professor & Head  
Department of Electronics  
& Communication Engineering

### ASSOCIATE EDITORS



**Er. Sukhjinder Singh**  
Assistant Professor  
Department of Electronics  
& Communication Engineering



**Er. Shimpy Maheshwari**  
Assistant Professor  
Department of Electrical  
Engineering



**Er. Money Goyal**  
Assistant Professor  
Department of Electrical  
Engineering

### DEPARTMENT CO-ORDINATORS

**Er. Meenu Chawla**  
Department of Computer Science & Engineering

**Dr. Kirandeep Kaur**  
Department of Applied Chemistry

**Er. Harpreet Singh**  
Department of Civil Engineering

**Prof. Mukesh Grover**  
Department of Applied Mathematics

**Er. Lakhvinder Singh**  
Department of Electrical Engineering

**Dr. Gagan Gupta**  
Department of Applied Physics

**Dr Anil Jindal**  
Department of Mechanical Engineering

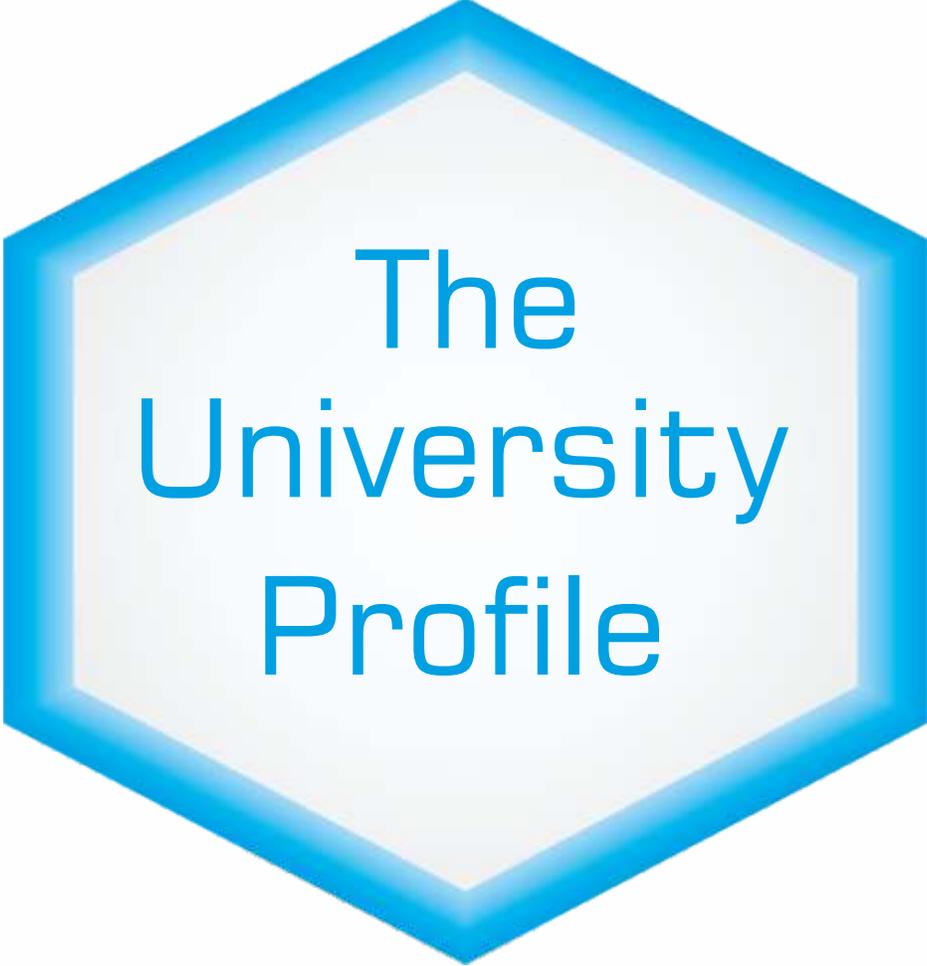
**Dr. Amitoj Singh**  
Department of Computer Applications

**Er. Amit Madahar**  
Department of Textile Engineering

**Ms. Samandeep Kaur**  
Department of Humanities and Management

**Ar. Ramneet Kaur**  
Department of Architecture

**Dr. Puneet Kumar Bansal**  
Department of Pharmaceutical Sciences & Technology



# The University Profile

## PREFACE

Maharaja Ranjit Singh Punjab Technical University (MRSPTU), Bathinda (Erstwhile Maharaja Ranjit Singh State Technical University, Bathinda) is an affiliating Technical University, established by Govt. of Punjab vide Punjab Act No. 5 of 2015 notified through Punjab Government Gazette-Extraordinary (Regd. No. CHD/0092/2015-2017) notification No. 5- Leg./2015 dated 12<sup>th</sup> February 2015 and registered with UGC u/s 2(f).

With spontaneous upswing in demand for quality Technical Education, burgeoning pressure on the Premier Technical University of Punjab, Punjab Technical University, Kapurthala, to mitigate regional imbalance in distribution of Temples of quality Technical Education in the State, for exponential socio-economic growth of the Malwa region, to bridge the gap between demand and supply of employable technical human resource, exigency for creation of a new State Technical University in Punjab was realized. Consequent on the implementation of this Act, Technical institutions of eleven districts of Punjab have been affiliated to MRSPTU with effect of 1<sup>st</sup> July, 2015 including Barnala, Bathinda, Faridkot, Fatehgarh Sahib, Fazilka, Ferozepur, Mansa, Moga, Patiala, Sangrur and Sri Muktsar Sahib.

The objectives of this new Technical University at Bathinda are to provide, upgrade and promote Quality Technical Education, Training and Research in Technical Education to create entrepreneurship and a conducive environment for the pursuit of Technical Education in close cooperation with industry. In the pursuit of creating excellence in Teaching, Research and Skill Development, the University has to attain highest standards by following and conforming to norms/standards policies laid down by the All India Council for Technical Education, New Delhi and University Grants Commission, New Delhi.

As an outcome of the above endeavours, the University is expected to generate and maintain resources through consultancy services, testing services, Continuing Education Programmes, national and international collaborations, MoU, transfer of intellectual property rights, etc. MRSPTU will cater to the needs of Quality Technical Education in eleven districts of Punjab encompassed in its jurisdiction. New M.Tech. & Ph.D. Programmes are being initiated from 2016-17 academic sessions. New skill development certificate courses in 9 areas of Engineering in the Constituent Colleges of the University and four PG Certificate Courses in Pharmacy in Affiliated Colleges are also being planned. India lives in countryside, where about 70% of the humans have their subsistence. MRSPTU takes pride in adopting 5 villages of Punjab – Nandgarh, Bajak, Bambiha, Kotguru and Dhunike for accelerating their overall growth.

## THE CITY OF BATHINDA



Bathinda or Bhatinda, named after the Bhati Rajput kings, is one of the oldest cities in Punjab, India and the current administrative headquarters of Bathinda District. It is situated in north-western India in the Malwa (Punjab) Region, 225 km west of the capital city of Chandigarh. Bathinda is nicknamed the city of Lakes and was once known as Tabar-e-Hind (or Tabarhindh), meaning the Gateway to India. The first empress of India, Razia Sultan was imprisoned in the Qila Mubarak fort in Bathinda.

Bathinda is home to two modern thermal power plants, Guru Nanak Dev Thermal Plant in the city and the other one, Guru Hargobind Thermal Plant at Lehra Mohabbat. It is also home to a fertilizer plant, a large oil refinery, a Zoo, and the historic Qila Mubarak fort. Bathinda is one of the biggest food grain and cotton markets in northern India, and the area around Bathinda has become a large grape growing area. The railway station of Bathinda is one of the biggest railway junctions in the country. It is one of the leading cities in Punjab for education.

Three national highways, NH-7 (Fazilka-Badrinath National Highway) and NH-54 (Dabwali-Pathankot National Highway) and NH-148 B (Bathinda-Narnaul National Highway) pass through the city.

## AREA OF JURISDICTION



The territorial limits in which the University shall exercise its powers and performs its duties, shall be Bathinda, Barnala, Faridkot, Fatehgarh Sahib, Fazilka, Ferozepur, Mansa, Moga, Sri Muktsar Sahib, Patiala and Sangrur districts of the State of Punjab and other regions outside the State of Punjab, as may be decided by the board from time to time subject to relevant regulations and statutes.

## RECOGNITION & APPROVALS



ज्ञान-विज्ञान विमुक्तये

Maharaja Ranjit Singh Punjab Technical University is recognized by the University Grants Commission (UGC), a statutory body of the Government of India established for the coordination, determination and maintenance of standards of university education in India.

Maharaja Ranjit Singh Punjab Technical University is included in the list of universities maintained by the University Grants Commission under Section - 2(f) of the UGC Act.

## BOARD OF GOVERNORS

**CHAIRMAN** : Chief Secretary, Govt. of Punjab

**VICE CHAIRMAN** : Principal Secretary, Govt. of Punjab, Department of Technical Education & Industrial Training.

### EX-OFFICIO MEMBERS

- Vice-Chancellor, Maharaja Ranjit Singh Punjab Technical University, Bathinda.
- Vice-Chancellor, I.K. Gujral Punjab Technical University, Jalandhar.
- Secretary to Govt. of Punjab, Department of Finance.
- Director, Department of Technical Education & Industrial Training, Punjab.
- Chairman of North-West Committee, AICTE, Chandigarh.
- President of Confederation of Indian Industry or his Nominee.

#### **Nominated Members :**

- Director of Indian Institute of Technology, Ropar.

### NOMINATED MEMBERS

#### **Two Eminent Industrialists:**

1. Sh. Rajinder Gupta, Managing Director, Trident Group of Industries, Barnala.
2. Sh. Rajinder Kumar Mittal, Chairman and Managing Director, M/s BCL Industries and Infrastructures Ltd., Bathinda.

#### **Two Eminent Technologists:**

1. Dr. S.K. Salwan, Former Vice-Chancellor, I.K. Gujral Punjab Technical University, Jalandhar.
2. Sh. Chander Mohan, MD, Punjab Tractors and Swaraj Group.

#### **One Principal of College by Rotation:**

Dr. J.S. Hundal, Campus Director, Giani Zail Singh Campus College of Engineering & Technology, Bathinda.

#### **One Head of Department by rotation from amongst the Heads of Departments of the University**

## OFFICERS OF THE UNIVERSITY

### CHANCELLOR

**Prof. Kaptan Singh Solanki**  
**Governor, Punjab**

### VICE-CHANCELLOR

**Prof. (Dr.) Mohan Paul Singh Ishar**

### REGISTRAR

**Prof. (Dr.) Jasbir Singh Hundal**

## UNIVERSITY DEANS & DIRECTORS

S.No.	Name	Designation	Telephone No.	E-mail
1.	Prof. (Dr.) Gursharan Singh	Dean Academic Affairs	8872500260, 9417628270	daa@mrsstu.ac.in
2.	Prof. (Dr.) Savina Bansal	Dean Research & Development	8725072492	drd@mrsstu.ac.in
3.	Prof. (Dr.) R. K. Bansal	Dean Student Welfare	8725072493	dsa@mrsstu.ac.in
4.	Prof. (Dr.) Jyoti Saxena	Director IQAC	8725072489	iqac@mrsstu.ac.in
5.	Prof. (Dr.) A. K. Goel	Director College Development Council	8725072491	dir.cd@mrsstu.ac.in
6.	Prof. (Dr.) Manjeet Bansal	Public Relations Officer	98151-26102, 87250-72480	pro@mrsstu.ac.in
7.	Prof. Karanvir Singh	Controller of Examinations	8725072332, 8872211150	coe@mrsstu.ac.in
8.	Ar. Bhupinder Pal S. Dhot	Director Sports & Youth Welfare	88725-00267	dir.cultural@mrsstu.ac.in
9.	Prof. Sanjay Bhatnagar	Director IT Enabled Services	8725072369	dir.ies@mrsstu.ac.in

## DEAN OF FACULTIES

S.No.	Faculty	Name	Telephone No.	E-mail
1.	Faculty of Engineering & Technology	Prof. Paramjeet Singh	9814469688	pjsingh8399@gmail.com
2.	Faculty of Pharmacy	Prof. Ashish Baldi	8968423848	baldiashish@gmail.com
3.	Faculty of Commerce & Management	Prof. Sanjeev Kumar Sharma	9814487217	uiams@pu.ac.in
4.	Faculty of Sciences	Prof. Subodh Kumar	9872361528	subodh_gndu@yahoo.co.in
5.	Faculty of Hospitality & Tourism Management	Prof. Meenakshi Malhotra	9888081002	meenmal@yahoo.com
6.	Faculty of Architecture & Planning	Pro. Karamjit Singh Chahal	9417107403	kschahal@rediffmail.com
7.	Faculty of Humanities & Social Sciences	Prof. B.S. Ghuman	9815942534	ghumanbs@pu.ac.in



## DIRECTORS OF UNIVERSITY'S CONSTITUENT COLLEGES

S. No.	Name	Constituent College	Telephone No.	E-mail
1.	Dr. Gursharan Singh	Giani Zail Singh Campus College of Engg. & Tech., Bathinda	8872500251	dir.gzs@mrsstu.ac.in
2.		Punjab Institute of Technology, Nandgarh	8872500260 9417628270	gursharans82@gmail.com dir.pitn@mrsstu.ac.in
3.	Dr. Sanjiv Kumar Aggarwal	Punjab Institute of Technology, GTB Garh, Moga	8725072475	dir.pitg@mrsstu.ac.in
4.	Dr. Balraj Singh Sidhu	Punjab Institute of Technology, Rajpura	9876006758	dir.pitr@mrsstu.ac.in
5.	Dr. Manjeet Bansal	Punjab Institute of Technology, Mansa	8725072480	dir.pitm@mrsstu.ac.in

## OTHER OFFICIALS OF UNIVERSITY

S. No.	Name	Designation	Telephone No.	E-mail
1.	Dr. Anupam Kumar	Officer In-charge, Store & Purchase	8725072312	deanspbti@rediffmail.com
2.	Prof. Harish Garg	Dy. Controller of Examinations	87250-72333 & 88725-00266	coe@mrsstu.ac.in
3.	Prof. Amarjit Singh	In-charge, Transport	88725-00282	amarjit61@gmail.com
4.	Prof. Sikander Singh	Assistant Director, Sports	88725-00286	siksidhu777@gmail.com
5.	Sh. Gurdeep Singh	Deputy Registrar Admn.	87250-72318	dy.reg@mrsstu.ac.in
6.	Sh. Jagdeep Singh Sidhu	Officiating S.D.O.	8725072354 & 8872500284	estategzsptu2014@gmail.com
7.	Sh. Subhash Chander Bansal	Assistant Registrar (Accounts)	8725072310	arf@mrsstu.ac.in

## ACADEMIC COUNCIL

Consequent upon the establishment of Maharaja Ranjit Singh State Technical University Bathinda, vide Punjab Act No. 5 of 2015, formation of Academic Council of the same is required to deliberate and decide all academic matters. The structure of Academic Council shall be according to guidelines of UGC and as per University Act (Clause 14.2).

**The structure of Academic Council shall be as follows:**

S. No.	Nomenclature	Designation	Proposed Academic Council	
1.	The Vice-Chancellor	Chairman	Vice-Chancellor, Maharaja Ranjit Singh Punjab Technical University, Bathinda	
2.	The Dean of Faculties	Member (One Member)	1.	Dean Faculty (Engineering & Technology)
			2.	Dean Faculty (Pharmacy)
			3.	Dean Faculty (Commerce & Business Management)
			4.	Dean Faculty (Sciences)
			5.	Dean Faculty (Hospitality & Tourism Management)
			6.	Dean Faculty (Architecture & Planning)
			7.	Dean Faculty (Humanities & Social Sciences)
3.	The Heads of the Departments/Schools of the University	Members	1.	Director/Head of
			2.	Departments/Schools of the
			3.	University and Constituent
			4.	Colleges/Campuses
4.	The Principals of ten Colleges affiliated to the University by rotation (Provided that no Principal shall be nominated again unless all others have been nominated at least once)	Members	1.	Director, Shaheed Bhagat Singh State Technical Campus, Moga Road, NH -95, Ferozepur (Punjab)
			2.	Principal, Malout Institute of Management & Information Technology, Malout (Punjab)
			3.	Principal, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib (Punjab)
			4.	Principal, Guru Teg Bahadur Khalsa Institute of Engineering & Technology, Chhapiawali, Malout, Sri Muktsar Sahib (Punjab)
			5.	Principal, Gurukul Vidyapeeth Institute of Engineering & Technology, Chandigarh-Patiala Highway, Ramnagar, Rajpura, Patiala (Punjab)

			<b>6.</b>	Principal, Indo Soviet Friendship College of Pharmacy, GT Road, Moga (Punjab)
			<b>7.</b>	Principal, Lala Lajpat Rai College of Pharmacy, Moga (Punjab)
			<b>8.</b>	Principal, Bhai Gurdas Institute of Management and Technology, Main Patiala Road, Sangrur (Punjab)
			<b>9.</b>	Principal, RIMT-Institute of Management & Computer Technology, Mandi Gobindgarh (Punjab)
			<b>10.</b>	Principal, Baba Hira Singh Bhattal Institute of Engineering & Technology, Sunam-Jakhal Road, Lehragaga, Sangrur (Punjab)
<b>5.</b>	Two Eminent Industrialists (to be nominated by the Board)	Members	<b>1.</b>	S. Karnail Singh Gharial, President, Punjab State Agricultural Implements Manufacturer's Association or his nominee
			<b>2.</b>	Dr. S.S. Marwaha, CEO, Biotechnology Incubator, Punjab, Ludhiana
<b>6.</b>	Two Eminent Technologists (to be nominated by the Board)	Members	<b>1.</b>	Sh. Sanjeev Nagpal, Sampurn Agri Ventures Pvt. Ltd. (SAVPL), Punchkula (Haryana)
			<b>2.</b>	Sh. Prabh Dass, MD and CEO, HMEL, Guru Gobind Singh Refinery, Bathinda or his nominee
<b>7.</b>	Registrar, MRSPTU, Bathinda	Secretary (Ex-Officio)		

## FUNCTIONS

1. Scrutinize and approve the proposals, with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof.
2. Make regulations regarding the admissions of students to different programmes of study in the University and affiliated colleges, and regulations for award of various degrees, including research degrees.
3. Make regulations for sports, extra-curricular activities, and co-curricular activities.
4. Recommend to the Governing Body, institution of scholarships, studentships, fellowships, prizes and medals, and to frame regulations for the award of the same.
5. Any other responsibility as given by the Vice-Chancellor from time to time.

## BOARD OF STUDIES (CHAIRPERSONS)

S. No.	BOS	Name	E-mail	Telephone No.
1.	Pharmacy	Dr. Ashish Baldi	baldiashish@gmail.com	8968423848
2.	Architecture & Planning	Ar. Bhupinder Pal S. Dhot	bpaldhot@hotmail.com	88725-00267
3.	Biotechnology	Dr. R.P. Gupta	info@bisinstitues.com	9878822104
4.	Agriculture	Dr. Vikram Singh	directorplaning@gmail.com	0176-2507000, 250722, 250788
5.	Fashion Technology	Dr. Poonam Sharma	--	0172-5044994, 5044995
6.	Chemical Engineering	Dr. Rajiv Arora	rajiv_fzr@yahoo.com	9463385619
7.	Food Technology	Dr. Tanuja Srivastwa	tanusriva@yahoo.co.in	9814847492
8.	Civil Engineering	Prof. G.S. Bath	gpsbath66@gmail.com	9417171710
9.	Textile Engineering	Dr. Rajeev Kumar Varshney	rajeev_varshney2002@yahoo.co.in	8872500271
10.	Computer Science & Engineering	Er. Abhilasha Jain	abd_jain@rediffmail.com	8872500274
11.	Information Technology	Dr. Harminder Singh Bindra	bindra.harminder@gmail.com	9872928828
12.	Computer Applications	Prof. Sanjay Bhatnagar	bhatnagar.sanjay@hotmail.com	8872500265
13.	Electrical Engineering	Dr. Jyoti Saxena	eceptugzs@gmail.com	8725072489
14.	Electronics & Communication Engineering	Dr. Jyoti Saxena	eceptugzs@gmail.com	8725072489
15.	Electrical & Electronics Engineering	Dr. Jyoti Saxena	eceptugzs@gmail.com	8725072489

## BOARD OF STUDIES (CHAIRPERSONS)

16.	Mechanical Engineering	Prof. Surinder Singh	barnalass17@yahoo.com	8872500264
17.	Marine Engineering	Prof. Surinder Singh	barnalass17@yahoo.com	8872500264
18.	Aerospace Engineering, Aeronautical Engineering, Aircraft Maintenance	Prof. Bhiwani Singh	info@gurukul.cc	01762-264400, 264406
19.	Petrochemicals & Petroleum Refining	Prof. G. S. Bath	gpsbath66@gmail.com	9417171710
20.	Hospitality & Tourism Management	Mr. Raghav Sharma	ihtm09@gmail.com	8284900263
21.	Commerce & Business Management	Dr. Suman Kathuria	suman_kathuria@yahoo.co.in	8872500270
22.	Humanities & Social Studies	Dr. Raminder Pal Singh	rpsinghromy@gmail.com	8054011077
23.	Sciences (Physics)	Dr. Sandeep Kansal	skansal2k1@yahoo.com	8871500263
24.	Sciences (Chemistry)	Prof. (Dr.) Gursharan Singh	gursharans82@gmail.com	8872500260, 9417628270
25.	Sciences (Mathematics)	Prof. Karanvir Singh	karanvirs786@gmail.com	8872211150

## OFFICE OF THE CONTROLLER OF EXAMINATIONS

**Professor Incharge:** Prof. Karanvir Singh

The Examination system operates in eleven districts of Punjab state which include Bathinda, Faridkot, Sri Muktsar Sahib, Fatehgarh Sahib, Fazilka, Sangrur, Patiala, Barnala, Ferozepur, Mansa, and Moga, It covers Maharaja Ranjit Singh Punjab Technical University, Bathinda having 05 University Colleges and 103 Affiliated Colleges under Capacity Enhancement programme. It is dealing with Choice Based Credit system, Semester and Annual System of the University.

Different wings under office of Controller of Examination are actively involved in registration of the students admitted in current academic session, conduct of fair and timely examinations (as per the academic calendar of the University), appoint examiners for setting of question papers and evaluation for theory courses, timely declaration of results and issue of marks statements. In addition, formulation and adherence to guidelines for examination system and amendments from time to time are taken care of besides routine Examination work, Office of Controller of Examination is also actively involved in conducting examination for the recruitment of various posts in the University. It also provides assistance to conduct various National/State level Entrance tests conducted by the University.

### COMPUTER CENTRE/ EXAMINATION SOFTWARE

The computer centre managed Student database, design of Programs for exams related activities, student photo database management, data/result processing and declaration, and uploading of result, DMC and gazettes on University website, printing of DMC/DEGREES and post result notification.

### ACTIVITIES

- Computer awareness training to newly appointed staff in examination branches.
- Examination, evaluation and grade preparation of the students studying in University campus and affiliated colleges is being done by the respective departments through the software prepared by Computer Center.

### MAJOR REFORMS INITIATED AND IMPLEMENTED

- Online profile of the students before filling of examination form enabled.
- Students fill online examination form.
- Online admit card generated.
- Secrecy memos & challan are generated online during conduct of examination by Superintendent.
- Process of evaluation is also done online.
- Results of students are put in student's login & institute login.
- DMC's are printed online through software.

## INFRASTRUCTURE UPGRADATION

- The Evaluation Centres and Coding/De-coding Halls of Secrecy Wing have been done through Camera surveillance. To monitor ongoing confidential work by Deputy Registrar (Secrecy) office has been established.
- Networking has been done in the whole examination branch.
- Controller office has been upgraded for tiled Floor, computers with latest configurations, networking & cameras surveillance and online power supply.

## STAFF

The following officer/staff was working in the office of Controller of Examination during 2015-16 and were handling the affairs of examination as a whole.

- Controller of Examination – 01
- Dy. Controller of Examination – 03
- Jr. Asstt. – 02
- Steno-typist – 01
- Clerk cum Data Entry Operator – 08
- Peon – 02

### UMC Committee

- Judge – 01
- Administrative – 01
- Academician – 01
- Controller of Examination – 01

## RELATED DETAILS

### Number of Result declared

- Session May-2016 semester examination = 16967 students results
- Session Dec-2015 semester examination = 11355 students results

### Examination Centre Created in 2015-16

- Session Dec -2015 = 38
- Session May-2016 = 38

### No. of Superintendent Appointed

- Session Dec -2015 = 38
- Session May-2016 = 38

### No. of Observer Appointed

- Session Dec -2015 = 38
- Session May-2016 = 38

**UMC Branch**

- UMC Case in Dec-2015 = 09
- UMC Case in May-2016 = 17

**Secrecy Branch**

<b>Evaluation of answer books</b>			
<b>Evaluation centers established at</b>	<b>Dec-2015</b>	<b>May-2016</b>	<b>Staff/Manpower deployed per evaluation centre</b>
Fatehgarh Sahib	01	01	Controller: 01 Assistant to Controller: 01 Checking Assistant: 01 Clerk: 01 Helper: 01
Bathinda	02	02	
Sangrur	01	01	
Patiala	01	02	
Moga	01	02	
Malout	01	01	
Barnala	01	----	

**Nodal Centre**

<b>Nodal centre for submission of answer books</b>			
<b>Nodal centers established at</b>	<b>Dec -2015</b>	<b>May -2016</b>	<b>Staff/Manpower deployed per evaluation centre</b>
Fatehgarh Sahib	01	01	Nodal Centre Incharge: 01 Clerk: 01 Helper: 01 Officer on for submission of answer book: 01
Bathinda	01	01	
Sangrur	01	01	
Patiala	01	01	
Moga	01	01	
Malout	01	01	
Barnala	01	01	
Ferozepur	01	01	



## FINANCE COMMITTEE

The finance committee of MRSPTU shall consist of the following persons namely:

S. No.	Description	Designation
1.	Vice-Chancellor, MRSPTU, Bathinda	Chairman
2.	Principal Secretary, Govt. of Punjab, Department of Finance	Member
3.	Principal Secretary, Govt. of Punjab, Department of Technical Education & Industrial Training, Punjab	Member
4.	Director, Department of Technical Education & Industrial Training, Punjab	Member
5.	Registrar, MRSPTU, Bathinda (Nominee of Chairman, Board of Governors)	Member
6.	Finance Officer, MRSPTU, Bathinda	Member-Secretary

## LIST OF INSTITUTES & COURSES

The University has one campus institute having more than 3000 students in Engineering, Architecture, Management and Sciences. It also has 8 constituent Colleges (PITs) out of which 4 are functional. Further, it has 103 colleges offering AICTE courses and Non-AICTE courses that are affiliated with the University. There are almost 1 lakh students enrolled in these institutions.

<b>Giani Zail Singh Campus College of Engineering &amp; Technology, Bathinda</b>		
<b>Course</b>	<b>Branch</b>	<b>Intake</b>
<b>B.Tech.</b>	Civil Engineering	60
	Civil Engineering (2 <sup>nd</sup> shift)	60
	Computer Science & Engineering	90
	Computer Science & Engineering (2 <sup>nd</sup> shift)	60
	Electrical Engineering	60
	Electronics & Communication Engineering	60
	Mechanical Engineering	120
	Textile Engineering	60
<b>B.Arch.</b>	B.Architecture	40
<b>M.Tech. (Full Time)</b>	Constructional Technology & Management	18
	Electronics & Communication Engineering	50
	Mechanical Engineering	18
	Computer Science & Engineering	25
	Computer Science & Engineering	18
<b>M.Tech. (Part Time)</b>	Civil Engineering (Structural)	25
	Computer Science & Engineering	25
	Constructional Technology & Management	25
	Electronics & Communication Engineering	25
	Environmental Science & Engineering	25
	Mechanical Engineering (Production)	25
	Power Engineering	25
	Textile Engineering	25
<b>Management</b>	MBA	60
<b>MCA</b>	MCA	60
<b>M.Sc.</b>	Mathematices	60
	Physics	60
	Chemistry	60
<b>Punjab Institute of Technology, Mansa</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Electrical Engineering	60
	Computer Science & Engineering	60
	Mechanical Engineering	60
	Electronics & Communication Engineering	60

<b>Punjab Institute of Technology, Moga</b>		
<b>B. Tech.</b>	Civil Engineering (LEET)	60
	Electrical Engineering (LEET)	60
	Mechanical Engineering (LEET)	60
<b>Punjab Institute of Technology, Rajpura</b>		
<b>B. Tech.</b>	Electrical and Electronics Engineering (LEET)	60
<b>M. Tech.</b>	Electronics & Communication Engineering	18
	Computer Science & Engineering	18
<b>Punjab Institute of Technology, Village Nandgarh, Distt. Bathinda</b>		
<b>MBA</b>	MBA	60
<b>M. Com (Prof.)</b>	M. Com (Prof.)	60
<b>B. Com (Prof.)</b>	B. Com (Prof.)	60
<b>Shaheed Bhagat Singh State Technical Campus, Moga Road, Ferozepur</b>		
<b>B.Tech.</b>	Chemical Engineering	30
	Civil Engineering	120
	Computer Science & Engineering	120
	Electrical Engineering	60
	Electronics & Communication Engineering	90
	Mechanical Engineering	120
	Mechanical Engineering (2 <sup>nd</sup> Shift)	60
<b>M. Tech. (Full Time)</b>	Computer Science & Engineering	18
	Mechanical Engineering	18
	Electronics & Communication Engineering	18
<b>M. Tech. (Part Time)</b>	Mechanical Engineering	25
	Computer Science & Engineering	25
	Electronics & Communication Engineering	25
<b>Management</b>	MBA	60
<b>MCA</b>	MCA	60
<b>BCA</b>	BCA	60
<b>Abnoor Institute of Information &amp; Technology, Faridkot</b>		
<b>BBA</b>	BBA	60
<b>BCA</b>	BCA	60
<b>B.Com (Prof.)</b>	B.Com (Prof.)	60
<b>Adesh Institute of Engineering &amp; Technology, Faridkot</b>		
<b>M. Tech. (Full Time)</b>	Computer Science & Engineering	18
	Electrical Engineering	18
	Electronics & Communication Engineering	18
	Information Technology	18
<b>B. Tech.</b>	Electrical Engineering	60
	Electronics & Communication Engineering	60
	Computer Science & Engineering	120
	Civil Engineering	60

Management	MBA	60
<b>Akal College of Pharmacy &amp; Technical Education, Mastuana Sahib</b>		
Pharmacy	M. Pharm. (Pharmaceutics)	18
	M. Pharm. (Pharmacognosy)	18
	M. Pharm. (Pharmacology)	18
	B. Pharm.	60
<b>Akal Institute of Management and Computer Applications, Rureke Kalan</b>		
BCA	BCA	120
<b>Aklia Educational &amp; Research Society Group of Institutions, Aklia Kalan</b>		
B.Tech.	Mechanical Engineering	30
	Electrical Engineering	30
	Civil Engineering	30
MCA	MCA	30
Management	MBA	30
<b>Alpine Institute of Information &amp; Technology, Moga</b>		
B.Sc.	Information Technology	60
BCA	BCA	60
BBA	BBA	30
B.Com (Prof.)	B.Com (Prof.)	60
B.Sc.	Fashion Design	60
<b>Arayabhatta Group of Institutes, Barnala</b>		
B. Tech.	Electrical Engineering	30
	Electronics & Communication Engineering	30
	Mechanical Engineering	30
	Computer Science & Engineering	30
Management	MBA	30
<b>Aryans Business School, Nepra</b>		
Management	MBA	120
<b>Aryans College of Engg. &amp; Tech.</b>		
B. Tech.	Civil Engineering	180
	Mechanical Engineering	180
	Electronics & Communication Engineering	60
	Electrical Engineering	120
	Electrical & Electronics Engineering	60
	Computer Science & Engineering	60
<b>Aryans Institute of Management &amp; Technology, Nepra</b>		
BBA	BBA	120
BCA	BCA	120
<b>Asra College of Engineering &amp; Technology, Rajpura</b>		
B. Tech.	Civil Engineering	60
	Computer Science & Engineering	120
	Electronics & Communication Engineering	120
	Mechanical Engineering	120

<b>M. Tech. (Full Time)</b>	Computer Science & Engineering	48
	Electronics & Communication Engineering	24
	Mechanical Engineering	24
<b>Baba Isher Singh College of Pharmacy, Gagra</b>		
<b>Pharmacy</b>	B. Pharm.	60
	M.Pharm. (Pharmacognosy)	18
	M.Pharm. (Pharmaceutical Analysis)	18
<b>Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib</b>		
<b>B. Tech.</b>	Computer Science & Engineering	180
	Electronics & Communication Engineering	120
	Mechanical Engineering	180
	Electrical Engineering	120
	Information Technology	90
	Industrial Engineering	60
	Civil Engineering	120
<b>M. Tech. (Full Time)</b>	Computer Science & Engineering	18
	E-Security	18
	Electronics & Communication Engineering	18
	Instrumentation & Control Engineering	18
	Robotics & Mechatronics	18
	CAD/CAM	18
	Power System	18
<b>MCA</b>	MCA	60
<b>Management</b>	MBA	60
<b>Baba Farid College of Engineering and Technology, Deon</b>		
<b>B. Tech.</b>	Computer Science & Engineering	120
	Electronics & Communication Engineering	60
	Electrical Engineering	60
	Information Technology	60
	Civil Engineering	60
	Mechanical Engineering	60
<b>M.Tech. (Full Time)</b>	Electronics & Communication Engineering	18
	Computer Science & Engineering	18
<b>Baba Hira Singh Bhattal Institute of Engineering &amp; Technology, Lehragaga</b>		
<b>B. Tech.</b>	Electrical Engineering	60
	Computer Science & Engineering	60
	Electronics & Communication Engineering	60
	Mechanical Engineering	120
<b>Baba Isher Singh Institute of Science &amp; Technology, Gagra</b>		
<b>B.Com. (Prof.)</b>	B.Com (Prof.)	60
<b>B.Sc.</b>	Agriculture	60
	Information Technology	120
	Medical Laboratory Technology	40

<b>M.Sc.</b>	Information Technology	60
	Medical Laboratory Technology	40
<b>BBA</b>	BBA	60
<b>BCA</b>	BCA	120
<b>Bahra Institute of Pharmacy, Bhedpura</b>		
<b>Pharmacy</b>	B. Pharm.	60
<b>Bahra Faculty of Information &amp; Technology &amp; Business Management, Bhedpura</b>		
<b>BBA</b>	BBA	40
<b>BCA</b>	BCA	40
<b>B.Com. (Prof.)</b>	B.Com (Prof.)	60
<b>Bahra Group of Institutes, Bhedpura</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Computer Science & Engineering	60
	Mechanical Engineering	60
	Electronics & Communication Engineering	120
<b>M. Tech. (Full Time)</b>	Computer Science & Engineering	18
	Mechanical Engineering	18
<b>Management</b>	MBA	60
<b>MCA</b>	MCA	60
<b>Bhai Gurdas Institute of Engineering &amp; Technology, Sangrur</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Computer Science & Engineering	120
	Electronics & Communication Engineering	120
	Electrical Engineering	60
	Mechanical Engineering	120
	Food Technology	60
	Information Technology	60
<b>Management</b>	MBA	60
<b>M. Tech. (Full Time)</b>	Computer Science & Engineering	24
	Electronics & Communication Engineering	24
	Electrical Engineering	18
	Mechanical Engineering	18
<b>Bhai Gurdas Institute of Management &amp; Technology, Sangrur</b>		
<b>Management</b>	MBA	120
<b>MCA</b>	MCA	120
<b>M.Com. (Prof.)</b>	M.Com (Prof.)	30
<b>BCA</b>	BCA	120
<b>BBA</b>	BBA	90
<b>B.Com. (Prof.)</b>	B.Com (Prof.)	120
<b>Bhai Gurdas Degree College, Sangrur</b>		
<b>B.Sc.</b>	Agriculture	60
<b>M.Sc.</b>	Applied Mathematics	30
	Applied Chemistry	30
	Applied Physics	30

<b>Bhai Maha Singh College of Engineering &amp; Technology, Muktsar</b>		
<b>B. Tech.</b>	Electronics & Communication Engineering	60
	Automobile Engineering	60
	Computer Science & Engineering	60
	Mechanical Engineering	60
<b>M. Tech. (Full Time)</b>	Computer Science & Engineering	18
	Computer Science & Engineering (2nd shift)	18
	Microelectronics	18
	Production Engineering	18
<b>Management</b>	MCA	60
	MBA	60
<b>Bhai Maha Singh College of Information Technology &amp; Life Sciences, Muktsar</b>		
<b>B.Sc</b>	Agriculture	60
<b>B.Com. (Prof.)</b>	B.Com (Prof.)	60
<b>BCA</b>	BCA	80
<b>Bharat Group of Colleges, Sardulgarh</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Electrical Engineering	60
	Mechanical Engineering	60
	Electronics & Communication Engineering	60
	Computer Science & Engineering	60
<b>MBA</b>	MBA	60
<b>Bharat Institutes of Management Studies, Khera Khurad</b>		
<b>BCA</b>	BCA	60
<b>BBA</b>	BBA	60
<b>B. Sc.</b>	Information Technology	60
<b>Baba Isher Singh College of Engineering &amp; Technology, Gagra</b>		
<b>B.Tech</b>	Mechanical Engineering	60
	Information Technology	60
	Computer Science & Engineering	180
	Civil Engineering	60
	Electronics & Communication Engineering	60
<b>Management</b>	MBA	120
<b>Baba Mangal Singh Institute of Computer Science, Bughipura</b>		
<b>BCA</b>	BCA	120
<b>B.Sc.</b>	Information Technology	40
<b>M.Sc.</b>	Information Technology	40

<b>Centre For Management Studies, Ramnagar</b>		
<b>Management</b>	MBA	180
<b>Continental Institute of Engineering &amp; Technology, Jalvehra</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Computer Science & Engineering	90
	Electronics & Communication Engineering	90
	Mechanical Engineering	60
<b>M.Tech. (Full Time)</b>	Mechanical Engineering	24
<b>Management</b>	MBA	60
<b>Department of Pharmaceutical Science, Govt. Polytechnic College for Girls, Patiala</b>		
<b>Pharmacy</b>	B.Pharm.	30
<b>Desh Bhagat Foundation Group of Institutions, Moga</b>		
<b>B.Com. (Prof.)</b>	B.Com (Prof.)	60
<b>B.Sc.</b>	FashionTechnology	40
	Air Tourism & Hotel Management (ATHM)	30
	Information Technology	40
<b>B.Tech.</b>	Civil Engineering	60
	Computer science Engineering	60
	Electronics & Communication Engg.	60
	Mechanical Engineering	60
<b>BBA</b>	BBA	60
<b>BCA</b>	BCA	80
<b>M.Sc.</b>	Information Technology	30
	Fashion Technology	30
<b>Management</b>	MBA	60
<b>M.Com (Prof.)</b>	M.Com (Prof.)	30
<b>PGDCA</b>	Post Graduate Diploma in Computer Application	30
<b>Dev Raj Group of Institutions, Zira Road, Dastul Sahib wala</b>		
<b>B.Com (Prof.)</b>	B.Com (Prof.)	60
<b>B.Sc.</b>	Agriculture	60
<b>BBA</b>	BBA	60
<b>BCA</b>	BCA	60
<b>PGDCA</b>	Post Graduate Diploma in Computer Application	60
<b>Dev Raj Groups Technical Campus, Zira Road, Dastul Sahib Wala</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Computer Science & Engineering	60
	Electrical Engineering	60
	Electronics & Communication Engineering	60
	Mechanical Engineering	60
<b>MCA</b>	MCA	60
<b>Management</b>	MBA	60



<b>Dr. I.T. School of Business, Jalalpur</b>		
Management	MBA	120
MCA	MCA	60
<b>Dr. I.T Institute of Management &amp; Technology, Jalalpur</b>		
BCA	BCA	60
B.Com. (Prof.)	B.Com (Prof.)	60
BBA	BBA	60
B.Sc.	Air Tourism & Hotel Management (ATHM)	40
Management	MBA	120
<b>Ferozpur College of Engineering &amp; Technology, Ferozeshah</b>		
B. Tech.	Civil Engineering	60
	Computer Science & Engineering	120
	Electronics & Communication Engineering	60
	Electrical Engineering	60
	Mechanical Engineering	60
<b>Ferozpur Institute of Management, Ferozeshah</b>		
B.Com. (Prof.)	B.Com. (Prof.)	60
BBA	BBA	90
BCA	BCA	180
B.Sc.	Agriculture	60
	Information Technology	120
M.Com. (Prof.)	M.Com (Prof.)	30
Management	MBA	120
M. Sc.	Information Technology	30
<b>Ghubaya College of Engineering &amp; Technology, Sukherabodla</b>		
B. Tech.	Mechanical Engineering	60
	Computer Science & Engineering	60
	Electronics & Communication Engineering	60
	Civil Engineering	60
<b>Gian Jyoti Group of Institution, Banur-Ambala Road, Shambu Kalan</b>		
Management	MBA	120
B. Tech.	Electronics & Communication Engineering	60
	Civil Engineering	60
	Electrical & Electronics Engineering	60
	Computer Science & Engineering	60
	Mechanical Engineering	60
<b>Gurudasi Devi Institute of Management &amp; Technology, Budhlad</b>		
BCA	BCA	90
B.Com (Prof.)	B.Com (Prof.)	30
B.Sc.	Information Technology	90
M.Sc.	Information Technology	60

<b>Guru Gobind Singh College of Management and Technology, Giddarbaha</b>		
BCA	BCA	120
B.Sc.	Information Technology	60
BBA	BBA	40
M.Sc.	Information Technology	60
PGDCA	Post Graduate Diploma in Computer Application	60
<b>Guru Nanak College of Management and Technology, Doomwali</b>		
BBA	BBA	60
BCA	BCA	60
B.Sc.	Agriculture	30
	Information Technology	60
	Fashion Technology	60
Management	MBA	60
M.Sc.	Information Technology	60
<b>Guru Ram Dass Institute of Engineering &amp; Technology, Lehera Bega</b>		
B. Tech.	Civil Engineering	60
	Electronics & Communication Engineering	60
	Electrical Engineering	60
	Computer Science & Engineering	60
	Mechanical Engineering	60
<b>Guru Teg Bahadur Khalsa College of Information Technology, Chhapian-Wali</b>		
B.Sc.	Information Technology	60
BCA	BCA	60
M.Sc.	Information Technology	60
<b>Guru Teg Bahadur Khalsa Institute of Engineering &amp; Technology, Chhapian-Wali</b>		
B. Tech.	Mechanical Engineering	90
	Civil Engineering	60
	Computer Science & Engineering	60
	Electrical Engineering	60
	Electrical and Instrumentation Engineering	30
	Electronics & Communication Engineering	60
Management	MBA	60
M.Tech.(Full Time)	Electronics & Communication Engineering	18
<b>Gurukul Institute of Management &amp; Technology, Ramnagar</b>		
BBA	BBA	80
BCA	BCA	80
B. Sc.	Information Technology	40
M. Sc.	Information Technology	40

<b>Gurukul Vidyapeeth College of Engineering &amp; Technology, Ramnagar</b>		
<b>B. Tech.</b>	3D Animation Engineering	60
	Aeronautical Engineering	60
	Computer Science & Engineering	90
	Aerospace Engineering	60
	Civil Engineering	120
	Electronics & Communication Engineering	60
	Information Technology	60
	Petrochemical and Petroleum Refinery Engg.	60
	Marine Engineering	60
	Mechanical Engineering	60
	Mining Engineering	60
	Automobile Engineering	60
<b>M. Tech. (Full Time)</b>	Computer Science & Engineering	18
	Civil Engg. (Constructional Tech. & Mgmt.)	18
	Electronics & Communication Engineering	18
	Mechanical Engineering	18
	CAD/CAM	18
	Structural Engineering	18
<b>Management</b>	MBA	60
<b>Hi-Tech Institute of Management &amp; Computer Applications, Jai Singh Wala</b>		
<b>BCA</b>	BCA	120
<b>Ideal Institute of Management &amp; Technology, Manuke Gill</b>		
<b>BBA</b>	BBA	30
<b>BCA</b>	BCA	120
<b>M. Sc.</b>	Information Technology	30
<b>B. Com. (Prof.)</b>	B. Com. (Prof.)	30
<b>B. Sc.</b>	FT	30
<b>PGDCA</b>	Post Graduate Diploma in Computer Application	30
<b>Indo Soviet Friendship College of Pharmacy, Ghal Kalan, Moga</b>		
<b>Pharmacy</b>	M. Pharm. (Pharmaceutics)	24
	M. Pharm. (Pharmaceutics) (2 <sup>nd</sup> Shift)	18
	M. Pharm. (Pharmacology)	30
	M. Pharm. (Pharmacology) (2 <sup>nd</sup> Shift)	18
	M. Pharm. (Quality Assurance)	18
	M. Pharm. (Pharmacognosy)	15
	M. Pharm. (Pharmaceutical Analysis)	18
	M. Pharm. (Pharmaceutical Chemistry)	15
	B. Pharm.	120
<b>Pharm D.</b>	Post Bacallaureate	10
	Pharm D.	30

<b>Jamna Devi Institute of Management &amp; Technology, Shri Muktsar Sahib</b>		
<b>B.Com (Prof.)</b>	B.Com (Prof.)	30
<b>BCA</b>	BCA	60
<b>Jyoti College of Computer Science &amp; Technology, Rampura</b>		
<b>B.Sc</b>	Information Technology	30
<b>BCA</b>	BCA	30
<b>M.Sc</b>	Information Technology	30
<b>Kay Jay School of Management &amp; Technology, Rasulpur</b>		
<b>B.Com. (Prof.)</b>	B.Com. (Prof.)	60
<b>BCA</b>	BCA	60
<b>KCT College of Engineering &amp; Technology, Fatehgarh</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Computer Science & Engineering	60
	Electrical Engineering	60
	Electronics & Telecommunication Engineering	60
	Mechanical Engineering	60
<b>Kings Group of Institutions, Barnala</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Computer Science & Engineering	60
	Electrical & Electronics Engineering	60
	Electronics & Communication Engineering	60
	Information Technology	60
	Mechanical Engineering	60
<b>Management</b>	MBA	120
<b>Lala Jagat Naryan Institute of Information Tech.&amp; Management, Jalalabad</b>		
<b>B.Com. (Prof.)</b>	B.Com. (Prof.)	60
<b>BBA</b>	BBA	30
<b>BCA</b>	BCA	60
<b>Lala Lajpat Rai College of Pharmacy, Moga</b>		
<b>Pharmacy</b>	B.Pharm.	60
	M. Pharm. (Pharmaceutical Chemistry)	18
<b>Lala Lajpat Rai Institute of Engineering &amp; Technology, Moga</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Computer Science & Engineering	120
	Electronics & Communication Engineering	120
	Information Technology	60
	Mechanical Engineering	120
<b>M. Tech. (Full Time)</b>	Computer Science & Engineering	24
	Mechanical Engineering	18
	Information Tech. (Information and Cyber Warfare)	18
	Thermal Science & Engineering	18
<b>BBA</b>	BBA	60

<b>Management</b>	MBA	60
	MCA	60
	MCA (Leet)	60
<b>B. Com. (Prof.)</b>	B.Com. (Prof.)	60
<b>M.Sc</b>	Information Technology	60
<b>B.Sc.</b>	Information Technology	60
<b>BCA</b>	BCA	120
<b>M.Tech.(Part Time)</b>	Computer Science & Engineering	25
	Mechanical Engineering	25
<b>Lala Lajpat Rai Memorial Institute of Management &amp; Technology, Dhudike</b>		
<b>Management</b>	MBA	60
<b>BCA</b>	BCA	80
<b>M. L. Memorial Technical College, Killi Chahal</b>		
<b>B. Com (Prof.)</b>	B.Com (Prof.)	30
<b>BBA</b>	BBA	30
<b>BCA</b>	BCA	80
<b>M.Sc.</b>	Information Technology	40
<b>PGDCA</b>	Post Graduate Diploma in Computer Application	30
<b>Maharaja Ranjit Singh Khalsa Technical College, Bathinda</b>		
<b>BBA</b>	BBA	30
<b>BCA</b>	BCA	60
<b>M.Sc.</b>	Information Technology	40
<b>Malout Institute of Management and Information Technology, Malout</b>		
<b>BCA</b>	BCA	60
<b>B.Com (Prof.)</b>	B.Com (Prof.)	60
<b>BBA</b>	BBA	60
<b>M.Sc</b>	Mathematices	30
<b>B. Tech.</b>	Computer Science & Engineering	120
	Electronics & Communication Engineering	60
	Information Technology	60
	Mechanical Engineering	60
<b>Management</b>	MBA	60
<b>M.Tech.(Part Time)</b>	Mechanical Engineering	25
<b>Malwa Institute of Management, Patiala</b>		
<b>B.Com (Prof.)</b>	B.Com (Prof.)	60
<b>BCA</b>	BCA	60
<b>National College of Information Technology, Sri Muktsar Sahib</b>		
<b>B.Com. (Prof.)</b>	B.Com (Prof.)	30
<b>BCA</b>	BCA	60
<b>M.Sc.</b>	Information Technology	40

<b>PGDCA</b>	Post Graduate Diploma in Computer Application	30
<b>North West Institute of Engineering &amp; Technology, Dhudike</b>		
<b>B. Tech.</b>	Computer Science & Engineering	120
	Civil Engineering	60
	Electronics & Communication Engineering	90
	Mechanical Engineering	120
	Information Technology	60
<b>MBA</b>	MBA	60
<b>M.Tech. (Full Time)</b>	Computer Science & Engineering	24
	Mechanical Engineering	24
<b>North West Institute of Management &amp; Technology, Dhudike</b>		
<b>BCA</b>	BCA	60
<b>BBA</b>	BBA	60
<b>B.Com (Prof.)</b>	B.Com (Prof.)	60
<b>Patiala Institute of Engineering &amp; Technology, Nandpur Kesho</b>		
<b>B. Tech.</b>	Computer Science & Engineering	60
	Electronics & Communication Engineering	60
	Information Technology	60
<b>M.Tech.(Full Time)</b>	Computer Science & Engineering	18
<b>MBA</b>	MBA	60
<b>B.Com (Prof.)</b>	B.Com (Prof.)	60
<b>BCA</b>	BCA	60
<b>BBA</b>	BBA	60
<b>Radiant Institute of Engineering &amp; Technology, Abohar</b>		
<b>B. Tech.</b>	Mechanical Engineering	60
	Civil Engineering	60
	Computer Science & Engineering	60
	Electrical Engineering	60
	Electronics & Communication Engineering	60
<b>Radiant Institute of Information &amp; Technology, Abohar</b>		
<b>B.Sc.</b>	Agriculture	30
<b>B.Com (Prof.)</b>	B.Com (Prof.)	30
<b>Rakhra Management College, Rakhra</b>		
<b>BCA</b>	BCA	120
<b>Regional Institute of Management &amp; Technology, Mandi Gobindgarh</b>		
<b>MCA</b>	MCA	60
<b>BCA</b>	BCA	60
<b>RIMT College of Architecture, Mandi Gobindgarh</b>		
<b>B. Arch.</b>	B. Architecture	80
<b>RIMT Institute of Engineering &amp; Technology, Mandi Gobindgarh</b>		
<b>B. Tech.</b>	Civil Engineering	120
	Computer Science & Engineering	120
	Electrical Engineering	30
	Electronics & Communication Engineering	120
	Mechanical Engineering	120

	Computer Science & Engineering (2nd Shift)	60
	Electronics & Communication Engineering (2nd Shift)	60
	Mechanical Engineering (2nd Shift)	60
<b>M.Tech.(Full Time)</b>	Computer Science & Engineering	36
<b>Management</b>	MBA	60
<b>MCA</b>	MCA	60
<b>Maharaja Aggresen Engineering College, Mandi Gobindgarh</b>		
<b>B.Tech.</b>	Civil Engineering	120
	Computer Science & Engineering	60
	Electronics & Communication Engineering	60
	Mechanical Engineering	120
<b>S.D College of Pharmacy, KC Road, Barnala</b>		
<b>Pharmacy</b>	M. Pharm. (Pharmacognosy)	10
	B. Pharm.	40
<b>S.D Sabha Institute of Technology, Sangrur</b>		
<b>BCA</b>	BCA	60
<b>S.M Degree College, Changaliwala</b>		
<b>BCA</b>	BCA	80
<b>B. Com. (Prof.)</b>	B. Com. (Prof.)	30
<b>BBA</b>	BBA	60
<b>B.Sc.</b>	Information Technology	60
<b>PGDCA</b>	Post Graduate Diploma in Computer Application (NEW)	30
	Environmental Studies	30
<b>Sai College of Pharmacy, Changaliwala</b>		
<b>Pharmacy</b>	B. Pharm.	60
<b>SECT Group of Institutes, Bapror</b>		
<b>Management</b>	MBA	180
<b>B.Tech.</b>	Civil Engineering	60
	Computer & Communication Engineering	60
	Computer Science & Engineering	120
	Electronics & Communication Engineering	120
	Information Technology	60
	Mechanical Engineering	60
<b>M. Tech. (Full Time)</b>	Civil Engineering	18
	Electronics & Communication Engineering	18
	Mechanical Engineering	18
<b>S.F.C. Institute of Managemet &amp; Technology, Fatehgarh Korotana</b>		
<b>B.Com.(Prof.)</b>	B.Com.(Prof.)	60
<b>BBA</b>	BBA	60
<b>BCA</b>	BCA	60
<b>Shree Ganesh Group of Institutions, Rakhra</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Computer Science & Engineering	120
	Electrical Engineering	60
	Electronics & Communication Engineering	60

	Mechanical Engineering	120
<b>MCA</b>	MCA	60
<b>Shree Ganesh Group of Institutions, Rakhra</b>		
<b>BBA</b>	BBA	40
<b>BCA</b>	BCA	40
<b>Sant Kabir Institute of Information &amp; Management Technology, Purane Wala</b>		
<b>B.Sc.</b>	Information Technology	60
<b>BBA</b>	BBA	60
<b>BCA</b>	BCA	60
<b>M.Sc.</b>	Information Technology	60
<b>Surya Educational &amp; Charitable Trust Groups of Institutes (SGOI), Bapror</b>		
<b>B. Tech</b>	Civil Engineering	120
	Constructional Technology & Management	60
	Computer Science & Engineering	60
	Electronics & Communication Engineering	120
	Mechanical Engineering	120
<b>M. Tech</b>	Electronics & Communication Engineering	18
<b>B. Arch.</b>	B. Architecture	30
<b>Pharmacy</b>	B. Pharm.	60
<b>Hotel Mgmt.</b>	Bachelor in Hotel Mgmt & Catering Tech.	180
<b>Management</b>	MBA	180
<b>MCA</b>	MCA	120
<b>Surya World Technical Campus, Village Bapror, Patiala</b>		
<b>B. Tech.</b>	Civil Engineering	60
	Computer Science & Engineering	60
	Electrical Engineering	60
	Electronics & Communication Engineering	60
	Mechanical Engineering	60
<b>Management</b>	MBA	60
<b>Swami Vivekanand College of Pharmacy, Ramnagar</b>		
<b>Pharmacy</b>	B.Pharm.	60
	M. Pharm. (Pharmaceutics)	18
<b>Swami Vivekanand Faculty of Technology &amp; Management, Ramnagar</b>		
<b>B. Sc.</b>	Agriculture	30
<b>M. Com. (Prof.)</b>	M. Com. (Prof.)	60
<b>M. Sc.</b>	Mathematics	30
	Physics	30
<b>PGDCA</b>	Post Graduate Diploma in Computer Application (NEW)	30
<b>Swami Vivekanand Institute of Engineering &amp; Technology, Ramnagar</b>		
<b>B. Tech.</b>	Civil Engineering	120
	Computer Science & Engineering	120
	Electrical Engineering	60
	Electronics & Communication Engineering	120
	Mechanical Engineering	120
<b>M. Tech.</b>	Computer Science & Engineering	24



<b>(Full Time)</b>	Electronics & Communication Engineering	24
	Mechanical Engineering	18
<b>Management</b>	MBA	60
<b>MCA</b>	MCA	60
<b>Swift School of Pharmacy, Ghaggar Sarai</b>		
<b>Pharmacy</b>	B.Pharm.	60
	M. Pharm. (Pharmaceutics)	18
	M. Pharm. (Pharmacology)	18
<b>Tagore Institute of Management &amp; Technology, Patran</b>		
<b>BCA</b>	BCA	40
<b>Technical Education College, Handiaya</b>		
<b>BCA</b>	BCA	60
<b>Vidya Rattan Institute of Computer Application, Khokhar</b>		
<b>B. Com. (Prof.)</b>	B. Com. (Prof.)	60
<b>BCA</b>	BCA	120
<b>PGDCA</b>	Post Graduate Diploma in Computer Application	60
<b>Young Scholar College, Handiaya</b>		
<b>B. Comm. (Prof.)</b>	B. Com. (Prof.)	60
<b>B. Sc.</b>	Information Technology	60
<b>BBA</b>	BBA	60
<b>BCA</b>	BCA	60
<b>RIMT-Institution of Mgmt. &amp; Computer Technology, Mandi Gobindgarh</b>		
<b>Management</b>	MBA	60
<b>BBA</b>	BBA	60
<b>Punjab Business School, Sarkapra</b>		
<b>BBA</b>	BBA	40
<b>BCA</b>	BCA	40
<b>Guru Ramdass Malwa College, Gidderbaha</b>		
<b>BCA</b>	BCA	30
<b>B.Sc.</b>	Information Technology	30
<b>M. Sc.</b>	FT	30
<b>PGDCA</b>	Post Graduate Diploma in Computer Application	30
<b>Khattu Ji Institute of Technical Education, Lamochar Kalan</b>		
<b>B.Com (Prof.)</b>	B.Com (Prof.)	30
<b>BCA</b>	BCA	30
<b>Sainik Vocational Training Centre, Bathinda</b>		
<b>B.Sc.</b>	Information Technology	30
<b>PGDCA</b>	Post Graduate Diploma in Computer Application	30
<b>Sainik Institute of IT &amp; Management, Faridkot</b>		
<b>B.Sc.</b>	Information Technology	30
<b>PGDCA</b>	Post Graduate Diploma in Computer Application	30
<b>Sainik Vocational Training Centre, Bathinda</b>		
<b>M.Sc.</b>	Information Technology	30
<b>B.Sc.</b>	Information Technology	30

<b>Adesh Institute of Higher Studies, Faridkot</b>		
<b>B.Sc.</b>	Agriculture	60
<b>B.Com (Prof.)</b>	B.Com (Prof.)	60
<b>Sant Baba Jamit Singh Ji Management college, Moga</b>		
<b>B.Com (Prof.)</b>	B.Com (Prof.)	30
<b>BCA</b>	BCA	30
<b>BBA</b>	BBA	30
<b>Swift Technical Campus, Ghaggar Sarai</b>		
<b>B. Tech.</b>	Automotive Technolgy	60
	Civil Engineering	60
	Computer Networking	60
	Electronics Engineering	60
	Mechanical Engineering	60

## NOVEL INITIATIVES @MRSPTU

### BIOMETRIC ATTENDANCE



In order to ensure regular attendance of all faculty and students in affiliated colleges of the University, it is proposed to initiate Biometric attendance procedure. The students will be required to mark their attendance at least once in a day to ensure that they have attended the institute on that day.

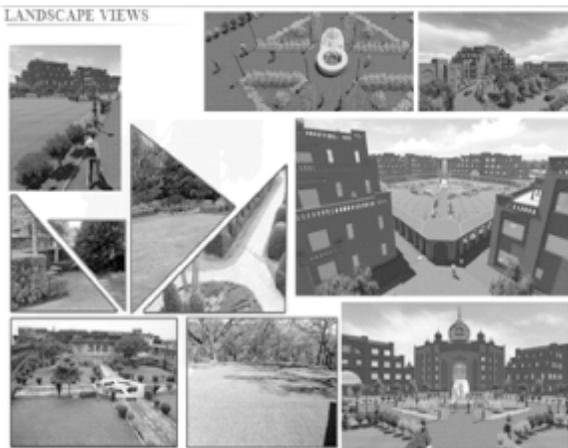
### CHOICE BASE CREDIT-BASED SYSTEM

Choice Based Credit System will be implemented with effect from next academic session 2016-17. The students will have the flexibility to pick up departmental elective courses and open elective courses out of a pool of courses available, suitable to his/her tastes, requirements and capability.

The performance of the students in a course shall be measured in terms of credit points earned by his/her course. This system facilitates transfer of credit earned by students across different departments/centres of other recognised universities or institutions of higher education in India and abroad.

## APPROVAL OF MASTER PLAN

### APPROVAL OF MASTER PLAN



MRSPTU, is being developed as a state of art campus spread over approximate 65 acres of land. An RFP was prepared for hiring of consultant for the planning and design of buildings of the University. Five firms had submitted their design proposals in response to the advertisement published by the University. The firms presented their proposals 16/12/2015. Based on the technical and financial proposals, the Department of Architecture, Guru Nanak Dev University, Amritsar was shortlisted as a consultant after clarifications and deliberations.

The presentation of the layout was made before the Hon'ble, Chief Minister Punjab on 24<sup>th</sup> Feb. 2016 in the presence of Chief Secretary-cum-Chairman, Board of Governor of University and the same was approved.



Academic  
Activities  
&  
Achievements

## OFFICE OF THE DEAN (ACADEMIC AFFAIRS)

FACULTY	
<b>Dean Academic Affairs</b>	
Prof (Dr.) Gursharan Singh	Ph.D.
<b>Asst. Registrar</b>	
Er. Rakesh Kumar	Ph.D. (Pursuing)
<b>Clerk cum Data Entry Operator</b>	
Mr. Kailash Chander Joshi	MBA
Er. Sushil Singla	B.Tech.

CORE AREAS
Notices/circulars regarding academics
To convene Academic Council Meetings/Standing Committee for Academic Council Meeting
Issue of University Roll Numbers
Fee Structure for various programmes
Issue of Academic Calendar
Preparation of Information Brochure for admissions
Advertisement in Media for Admissions
Admission process including counseling for admissions
Workshops related to academics
BOS Meetings for preparing syllabi
To convene Deans of various faculties meetings
To convene Chairpersons of various BOS Meetings
To convene Course Coordinators Meetings

### ADMISSIONS DETAILS 2015-16

Admission details of various degree colleges running AICTE programmes are as follows:

Year	Total Number of Degree Colleges running AICTE Programmes	Total Annual seating capacity of all degree level Colleges (AICTE)	Seats filled	% age of filled seats
2015-16	55	20209	6780	33.55

### ACHIEVEMENTS

1. 1<sup>st</sup> Academic Council Meeting held on 11/03/2016.
2. BOS Meetings have been conducted of many Programmes.
3. Migration Rules & Regulations were decided.
4. MoUs signed with other Universities reputed organizations.
5. Choice Based Credit System 2016 prepared and implemented.
6. Workshop on CBCS held in January 2016.
7. 1<sup>st</sup> meeting of Dean of various faculties held on 04/11/2015.

## OFFICE OF THE DEAN (RESEARCH & DEVELOPMENT)

**Dean, Research & Development :** Prof. (Dr.) Savina Bansal

### **Ph.D. Program**

The award of PhD degree shall be in recognition of high academic achievements, independent and original research, characterized either by the discovery of facts, or by fresh approach towards the interpretation and application of existing theories and facts, or development of innovative products, techniques, ideas, and technologies for its applications to the solution of technical and scientific problems in Engineering & Technology, Architecture & Planning, Science, Humanities & Social Science and Management.

Accordingly, PhD Regulations as per the UGC norms have been framed by the university in the very first year of its establishment and a student admitted in the session 2015-16 itself under QIP.

Interdisciplinary research areas are encouraged through Co-supervision mechanisms. All candidates are expected to undertake the honor code to conduct all activities – academic and research in a manner that shall enhance the prestige of the University.

### **Research Centres with High End Research Facilities**

Going by its mandate to offer quality research and education in the field of Sciences & Technology and other allied areas, MRSPTU offers academic programme leading to the award of PhD degree through its various Departments and approved research centers installed in its affiliated colleges and approved collaborative units.

Further, as a first step towards quality assurance in research and to carry out pre-PhD course work as per UGC requirements, Institutes/Organizations/Departments having requisite qualified manpower and research facilities (like Labs/ Hardware/ Software/ Journals/ Internet etc) need to be identified and developed. So, the guidelines and procedures for selecting these 'University Research Centers' have been framed by the R & D Deptt. of University. The main criterion for an affiliated Institute to become a research center is that it must be a PG Institute with good strength of post PhD experienced faculty, backed with good laboratory, library and Internet facilities. As a future plan, these university Research Centers shall be professionally supported by the University in unison with the host colleges, so as to become "Center of Research" in due course of time.

### **Policies for Ethics in Research**

In pursuance to the university vision and mission, to produce quality research work and human resources with high professional and ethical conduct and to check unethical research activities and plagiarism, the 'Guideline and Anti-Plagiarism Policy For Ethical Conduct in Research' has been framed by the Deptt. and notified in the very first year of its establishment.

### **Constitution of Department Doctoral Research Committees (DDRC) & University Research Board (URB)**

To maintain and regulate quality research, department doctoral research committees (DDRC) in various faculties have been notified. Further, the University Research Board (URB), the highest research body of the University has also been notified for monitoring and interpreting any kind of PhD related issues, besides approving the PhD research proposals.

### **Partial Financial Assistance & Technical Activities for Faculty Development**

In its commitment to acquaint and reorient the faculty with upcoming developments in technology and research, MRSPTU has framed partial financial support scheme, besides full administrative support, to all of

its affiliated colleges for organizing various effective co-curricular programs such as FDP, Short term courses, conferences, Symposia, Workshops, Seminars and likewise. To enhance the lecture delivery efficiency in class-rooms based on upcoming techniques and developments; all affiliated colleges are directed to periodically organize such activities with significant emphasis on thrust-areas including the recent endeavours of GOI like 'Digital India' or as envisaged/ announced by the government from time to time. The ultimate goal is to have pockets of centre of excellence throughout its area of jurisdiction. The various activities carried out under the scheme during the period are as follows:

Event Categories	Date & Venue	Achievements/ Activities	Description
<b>International Conference</b>	25.02.2016. to 27.02.2016 at Baba Farid College of Engg & Technology Village Deon, Muktsar Road Bathinda	International Conference on Advancements and Futuristic Trends in Material & Mech. Engg.	International conference was hosted to provide opportunity to promote various futuristic trends in Mechanical Engg and Material Engg. The conference was attended by participants from USA, Australia and National participants from various organizations like IIT, NIT, Research laboratories and well reputed Universities. The conference attracted over 100 participants in persons. In total, there were 80 research presentations in various technical sessions.
<b>Faculty Development Programme (FDP)</b>	20.02.2016 to 24.02.2016 Bharat Group of Colleges Sardulgarh , Distt Mansa	FDP on Pedagogy in Education	FDP on Pedagogy In Education was organized with an aim to provide a common forum to the academicians, scientist and professionals a common to cross fertilize their ideas to achieve skill based education. 51 candidates participated from various colleges. The stress was given on causes and redressal communication and soft skills in placements, professional ethics, teaching skills and mentoring.
<b>Seminar</b>	25.02.2016 at Swami Vivekanand Inst. of Engg & Technology Banur, Distt Patiala	Seminar on Advances in Computing Techniques	Seminar on advance computing techniques including big data Analytics, Research Issues in IT & Related tools & Extraction of weak edges in low contrast images was conducted. 22 candidates attended the seminar from well reputed colleges and various experts graced the event, held in computer Science & Engg Department of SVIET.

<b>National Conference</b>	03.03.2016 to 4.03.2016 at RIMT Inst of Engg & Technology Mandi Gobingarh	National Conference on Advances in Science & Technology	Two days National conference was held at RIMT with the collaboration of MRSSTU. More than 100 participants from various colleges participated in it. The main emphasis was laid on recent trends and advances in technology.
<b>Faculty Development Programme (FDP)</b>	11.07.2016 to 15.07.2016 at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib	FDP on Soft Computing Techniques for Engineering Applications	One week multidisciplinary research oriented FDP on "Soft Computing Techniques for Engineering Applications" was organized at Baba Banda Singh Bahadur Engineering college, Fatehgarh Sahib with 30 participants from various colleges affiliated to MRSPTU and other Universities of the region.
<b>Faculty Development Programme (FDP)</b>	04.07.2016 to 08.07.2016 at Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib	FDP on Cloud Computing: Applications and Issues	One week research oriented FDP on "Cloud Computing: Applications and Issues" was organized at Baba Banda Singh Bahadur Engineering college, Fatehgarh Sahib with 30 participants from various colleges affiliated to MRSPTU, Bathinda and other Universities from the area of CSE/ECE/EE/ IT and computer application.



## MOU(s) SIGNED BY THE UNIVERSITY

Maharaja Ranjit Singh Punjab Technical University (MRSPTU), Bathinda is engaged in providing technical education and promoting research in Engineering, Science, Pharmacy and Management and to create environment for the pursuit of technical education in close corporation with other institutions. Therefore, efforts have been made to sign Memorandum of Understanding with other institutions and industry. In this first year of its existence, MRSPTU has signed Memorandum of Understanding (MoUs) with five other institutions/organizations. The brief details of Memorandum of Understanding signed by MRSPTU with others are as follows:

S.N.	Memorandum of Understanding
1.	<b>NATIONAL INSTITUTE OF TECHNICAL TEACHER TRAINING &amp; RESEARCH, CHANDIGARH</b> is established by Govt. of India and is internationally recognized in the area of promoting excellence in teaching and research in technical education. The MoU shall help in promoting quality of research, training and curriculum development in the courses offered by the University.
2.	<b>INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY</b> is one of the most prime and leading technical institution of the Country. The MoU shall enable the faculty and students to enhance their technical skills by having easy access to SPOKEN TUTORIAL prepared by the intellectual faculty of IIT, Bombay.
3.	<b>CENTRAL UNIVERSITY OF PUNJAB, BATHINDA</b> is setup by Government of India, as a primer education institution with the state of art infrastructure to provide quality education and research. The standard of teaching and research of MRSPTU shall be enhanced by utilizing the excellent infrastructure and experience of the able faculty of the Central University of Punjab.
4.	<b>ENGINEERING STAFF COLLEGE OF INDIA HYDERABAD, TELEGANA</b> is set up by the Institutions of the Engineers (India), with the objective of conducting Continuation Education Programmes, Training, R&D and Consultancy. MRSPTU and its colleges shall benefit by participating in Continuing Education Programmes of ESCI and augmenting their knowledge and skills.
5.	<b>MOBILE TUTOR PRIVATE LIMITED, CHENNAI</b> is a company engaged in providing application oriented course ware using E-learning devices like Smartphone, Tablets for engineering students. The students of the University and its colleges shall benefit greatly by having free access to the E-learning material developed by the Company.

## GIANI ZAIL SINGH CAMPUS COLLEGE OF ENGINEERING & TECHNOLOGY

Giani Zail Singh Campus College of Engineering & Technology, Bathinda is the first institute in Punjab established by state government in the year 1989. Initially set up as Government Engineering College, it was converted in to an autonomous institute in the year 1992. This college was then made a campus of Punjab Technical University in 2011. Now the campus is a constituent college of newly setup Maharaja Ranjit Singh Punjab Technical University, Bathinda since 2015 and is recognized by All India Council of Technical Education (AICTE) & Council of Architecture. The institute provides an excellent academic environment under the able guidance of well-qualified and highly dedicated faculty.

GZSCCET, MRSPTU, Bathinda has the distinction of being the premier degree level technical education institute established by Government of Punjab. This institution has been engaged in shaping the destiny of budding engineers ever since its establishment. The College has a magnificent infrastructure spread over an area of 146 acres, which has been witnessing continuous developments since last seventeen years. This College is an excellent education centre with state of-the-art laboratories, computer centre, library and workshops. The college is continuously striving hard to achieve excellence in imparting good technical education with the help of its highly qualified and dedicated faculty, which is considered to be the best in the region. The progress and achievements of various academic departments of GZSCCET are summarized in next section.



# Department of Applied Chemistry



*Chemistry in Service of Community - Green Today , Prosperous Tomorrow!*

"The department is running M.Sc. Chemistry course with intake of 60 students apart from catering to all the disciplines of B. Tech and diploma courses for teaching Chemistry and Environmental Science. The department has qualified and dedicated team of faculty members actively engaged in research work in areas ranging from Synthetic Chemistry to Computational Chemistry. The department has two fully equipped laboratories and an audio visual hall."

## GLIMPSE OF THE DEPARTMENT



*Visit to Lal Bahadur Shashtri National Academy of Administration*



*Industrial visit to Bathinda Chemicals Ltd.*



*Trip to Mussorie*



*Chemistry Laboratory*



*Invited talk on Group theory by Dr. Paramjeet*



*Students in the seminar hall*

## DEPARTMENT OF APPLIED CHEMISTRY

FACULTY		CORE AREAS
<b>Head</b>		Inorganic Chemistry and Organometallic Chemistry
Dr. Seema Sharma	Ph.D.	
<b>Professors</b>		Inorganic Chemistry and Environmental Chemistry
Dr. Gursharan Singh	Ph.D.	
<b>Assistant Professors</b>		Bioinorganic and Supramolecular Chemistry Synthesis, Spectral and Antimicrobial Studies of Heterocyclic Compounds
Dr. Archana Pathak	Ph.D.	
Dr. Kirandeep Kaur	Ph.D.	
Mr. Gagandeep Singh	M.Sc., NET.	

MAIN LABORATORIES
Engineering Chemistry and Polymer Chemistry Laboratory
Instrumental Chemistry Laboratory

MAJOR EQUIPMENTS / INSTRUMENTS		
S. No.	Equipment/Instrument	Model/ Make
1.	Electronic balance (4 decimal places)	Afcoset
2.	PC based double beam UV-VIS spectrophotometer	Systronics 2202
3.	PC based NIR spectrophotometer	SL 153
4.	Two stage oil sealed Rotatory vacuum pump	PT 86/20
5.	UV-VIS spectrophotometer	Genesys 10S
6.	Muffle furnace	MFHT12DXSAD

### SPECIALIZED FACILITIES

#### Vacuum Line

- Vacuum line is used to synthesize air sensitive complexes.

### ACHIEVEMENTS

#### i) Fellowships / Honors / Awards ( Technical)

##### By Faculty:

- Life Member of Indian Society for Technical Education to Dr. Gursharan Singh.
- Life Member of Indian Science Congress to Dr. Gursharan Singh.
- Life Membership of Punjab Academy of Sciences to Dr. Seema Sharma.
- Life Membership of Indian Women Scientists' Association to Dr. Seema Sharma.
- Life Membership of Indian Council of Chemists to Dr. Seema Sharma.
- Life Membership of Asian Polymer Association to Dr. Seema Sharma.
- Life Membership of Indian Science Congress to Dr. Seema Sharma.

### Technical Events Organized

#### Workshops / Faculty Development Program / Short term courses / Orientation courses / Refresher courses

- Organized 'Workshop on Curriculum Development' on 18<sup>th</sup> January 2016.

#### Guest / Expert / Invited Lectures / Talks

- Talk on Group Theory by Dr. Paramjit Kaur, Guru Nanak Dev University, Amritsar on 4<sup>th</sup> March 2016.
- Talk on NMR Spectroscopy by Damanjit Singh, Sant Longowal Institute of Engineering and Technology, Longowal on 29<sup>th</sup> March 2016.

**Industrial Visits**

- Students of M. Sc. Chemistry visited Lal Bahadur Shastri National Academy of Administration, Mussorie, on 31<sup>st</sup> March 2016.
- Students of M. Sc. Chemistry visited Forest Research Institute, Mussorie, on 1<sup>st</sup> April 2016.

**Research Publications**

1. Gursharan Singh, Vikas Mangla, Mamta Goyal, Kavita Singla, Deepika Rani, Rakesh Kumar (2015) American International Journal of Research in Science, Technology & Mathematics, 11(2): 158-166.
2. Gursharan Singh, Seema Sharma, Vikas Mangla, Mamta Goyal, Kavita Singla, Deepika Rani (2015) Reaction of MoO<sub>2</sub>Cl<sub>2</sub> with imidazole, pyrazole, acetamide and succinimide. American International Journal of Research in Science, Technology & Mathematics, 42(3): 25-31.
3. Seema Sharma, Subhash Chander, M. Sehgal, Irshad Ahmad (2015) <sup>13</sup>C and <sup>17</sup>O NMR mononuclear carbonyls: A DFT study. Oriental Journal of Chemistry, 31(3): 1417-1427.
4. Archana Pathak (2016) Synthesis, characterization and antimicrobial studies of indolethiacarbamides. American International Journal of Research in Formal Applied and Natural Sciences, 14(1): 114-117.
5. Archana Pathak (2016) Synthesis of Benzimidazole derivatives of chemotherapeutic approach. American International Journal of Research in Formal Applied and Natural Sciences, 14(1): 35-38.
6. Archana Pathak and Sandeep Singh (2016) Synthesis, characterization and antimicrobial studies of chalcone. American International Journal of Research in Formal Applied and Natural Sciences, 15(1): 67-70.
7. Kirandeep Kaur and Minati Baral (2015) Ability of two novel  $\alpha$ -amino acid-based tridentate ligands to complex Fe<sup>3+</sup> in solution. Research on Chemical Intermediates, 41(8): 5635-5648.

**Seminars/Conferences****i) Papers presented****National**

1. Gursharan Singh (2016) orally presented a paper at Indian Science Congress held at Mysore.
2. Archana Pathak and Seema Sharma (2016) Green and sustainable marketing. Current Issues and Opportunities in Emerging Global Business Scenario held at GZSCCET, Bathinda.

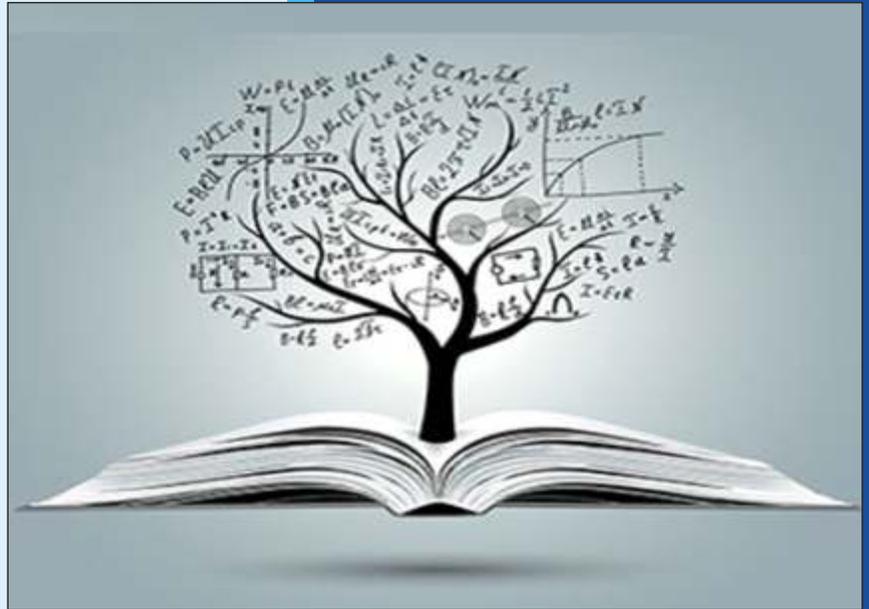
**Workshops / FDP / Short Term Courses /Orientation Courses / Refresher Courses**

1. Seema Sharma (2015) Workshop on Water Harvesting, Water Recycling and Water Resource Management, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
2. Seema Sharma (2016) Workshop on Green and Energy Efficient Buildings through ICT, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
3. Kirandeep Kaur (2015) Workshop on Drug Design, Molecular Docking, Virtual Screening and Pharmacoinformatics, held at Centre for Pharmaceutical Sciences and Natural Products, Central University of Punjab, Bathinda.

**Co-curricular/Extracurricular Events**

- Fresher party, organized on 29<sup>th</sup> Sept. 2015.
- Tarannum 2015, organized on 6<sup>th</sup> and 7<sup>th</sup> Oct. 2015.

# Department of Applied Mathematics



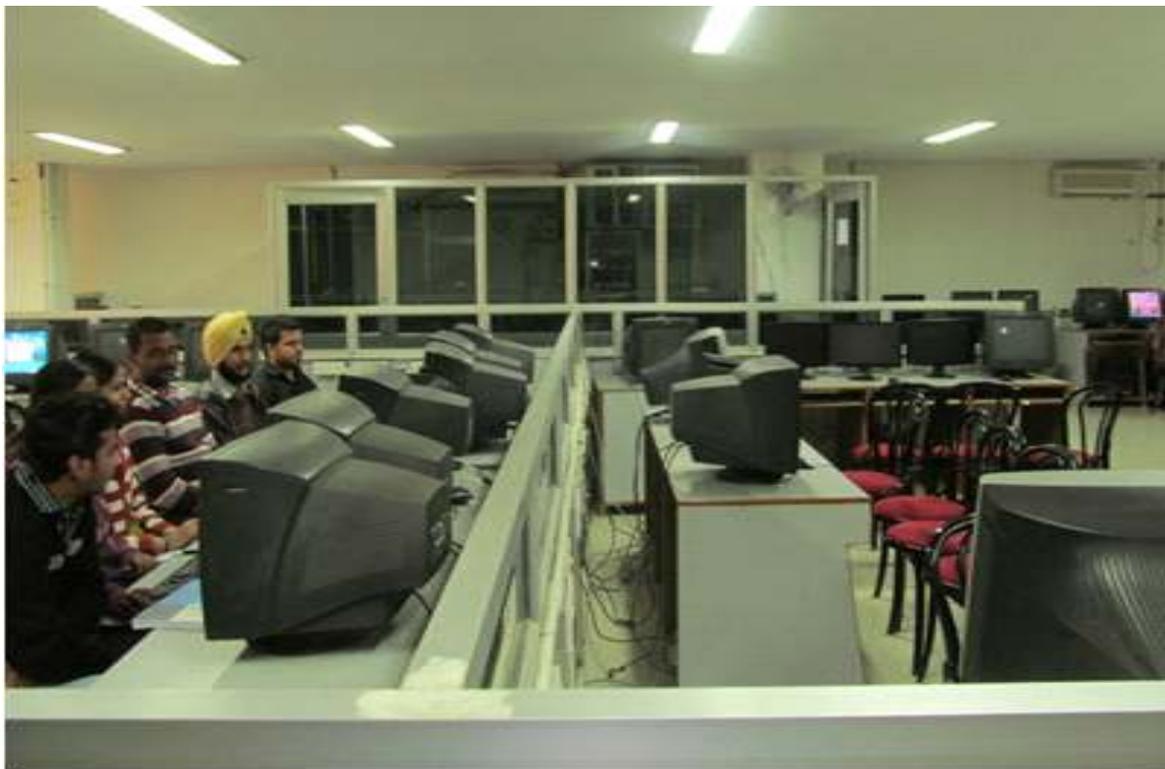
*Mathematics is the gate and key of the Sciences.....*

“The Department of Applied Mathematics was established in 2011. The major thrust is on research and P.G. courses. In light of this, it has started M.Sc (Mathematics) from the academic year 2012. Since the inception of this institution in the year 1989, the faculty of applied mathematics is also teaching various important subjects in the programs viz. “B.Tech (All Branches), M.Tech (Regular), M.Sc. (Mathematics, Physics, Chemistry)”. Department of Applied Mathematics, earlier part of Department of Applied Sciences, caters to the needs of all the students of Engineering. The department intends to expose the variety of disciplines in Mathematics by running the Post-Graduate course in M.Sc Mathematics and further it will be developed as a center for Research and Development. Major strength of the department is its Faculty with vast teaching and Research experience. Major areas of Research include Applied and Pure Mathematics like Numerical analysis, Operation Research, Fourier analysis, Complex Analysis, Coding theory and Topology.”

**GLIMPSE OF THE DEPARTMENT**



*Computer Lab-I*



*Computer Lab-II*



## DEPARTMENT OF APPLIED MATHEMATICS

FACULTY	
<b>Head</b>	
Prof. Karanvir Singh	M.Phil.
<b>Assistant Professors</b>	
Ms. Mamta Kansal	M.Phil.
Mr. Mukesh Grover	M.Phil.
Dr. Manjot Kaur	Ph.D.
Ms. Rajni	M.Sc.
Ms. Sandeep Kaur	M.Sc.
Ms. Guneet Kaur	M.Sc.
Mr. Munish Kumar	M.Sc.
Ms. Sheffy Maheshwary	M.Sc.

CORE AREAS
Numerical analysis
Operation research
Fourier analysis
Complex analysis
Coding theory and topology

### Technical Events Organized

#### Guest / Expert / Invited Lectures / Talks

Expert Lecture on "Iterative methods for solving nonlinear equations or systems of nonlinear equations" by Dr. Vinay Kanwar, HOD Department of Applied Mathematics UIET, Punjab University, Chandigarh on 15<sup>th</sup> March 2016.

### Seminars/Conferences

#### Papers presented

##### National

1. Mukesh Grover (2016) An application of MATLAB to solve higher order ODE. National conference on Current Issues and Opportunities in Emerging Global Business Scenario, held at MRSPTU, Bathinda.

##### International

1. Karanvir Singh (2015) L1-convergence of modified sine sum of trigonometric series with special coefficients. International Conference on Special Functions and Their Applications, held at Amity University, UP, Noida

### Workshops / FDP / Short Term Courses /Orientation Courses / Refresher Courses

1. Karanvir Singh (2015) Short Term Course on Water Harvesting, Water Recycling and Water Resource Management, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
2. Mukesh Grover attended (2015) Short Term Course on Water Harvesting, Water Recycling and Water Resource Management, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

3. Karanvir Singh (2016) Workshop on Green and Energy Efficient Buildings through ICT 2016, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
4. Mamta Kansal (2016) Workshop on Green and Energy Efficient Buildings through ICT 2016, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
5. Mukesh Grover (2016) Workshop on Green and Energy Efficient Buildings through ICT 2016, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

### Co-curricular/Extracurricular Events

- Tarannum 2015, organized on 6<sup>th</sup> and 7<sup>th</sup> Oct., 2015
- Fresher party, organized on 24<sup>th</sup> Sept., 2015
- Farewell Party, organized on 11<sup>th</sup> April, 2016

# Department of Applied Physics



## *Applying Physics in Life*

"The Department of Applied Physics caters to the need of all students of Engineering and Diploma wing. The department intends to expose the variety of disciplines in Physics by starting the Post-Graduate course in M.Sc. Physics and further it will be developed as a centre for Research and Development. Major strength of the department is its Faculty with vast teaching and Research experience. Major areas of Research include Radiation Physics, Condensed Matter Physics, Nanotechnology, Ferroelectric Ceramics and Polymer Composite Films, Nuclear Physics, astrophysics and Planetary Sciences."

**GLIMPSE OF THE DEPARTMENT**



*DC Polling Unit*



*Current Voltage Characterization*



*Programmable Muffle Furnace*



*Tensometer*



*Ultrasonicator*



*Vacuum Coating Unit*

## DEPARTMENT OF APPLIED PHYSICS

FACULTY	
<b>Head</b>	
Dr. Sandeep Kansal	Ph.D.
<b>Assistant Professors</b>	
Dr. Rajpal Singh	Ph.D.
Dr. Rishi Kumar	Ph.D.
Dr. Gagan Gupta	Ph.D.

CORE AREAS
Radiation Physics
Polymer and Material Sciences
Soft Matter Physics (Experimental)
Nano Materials
Condensed Matter Physics
Astrophysics
Planetary Sciences

MAIN LABORATORIES
Engineering Physics Laboratory
Nuclear Physics Laboratory
Condensed Matter Physics laboratory
Research Laboratory

MAJOR EQUIPMENTS / INSTRUMENTS		
S. No.	Equipment/Instrument	Model/ Make
1	GM counter with STX software	Indosaw, Ambala Cantt.
2	Holographic kit	Indosaw, Ambala Cantt.
3	Data link consisting of a) Transmitter/receiver module b) Fiber cable duplex 100M c) SMA connectors 2pc	Indosaw, Ambala Cantt.
4	Tensile testing machine	Precision Industries, Delhi
5	Magneto-resistance of semi conductors	Precision Industries, Delhi
6	Spin coating unit	Apex instruments co. Pvt. Ltd. Kolkata
7	Impedance analyzer complete with furnace	Wayne Kera Electronics Pvt. Ltd. Delhi
8	Muffle furnace with PID controller	Metrex Scientific Instruments Pvt. Ltd. Delhi
9	P.E. loop tracer (Proprietary item)	Marine India New Delhi
10	I.V. Current voltage characteristics measurement device (Agmatel)	Agmatel India Pvt. Ltd. Bangalore
11	D.C. polling unit (With software)	Marine, MIG Flats, Green Apartments, New Delhi
12	Amplifier with polarization Measurement (With Software)	Marine, MIG Flats, Green Apartments, New Delhi
13	Vacuum coating unit	Vacuum Equipments Co. New Delhi

## SPECIALIZED FACILITIES

### 1. Vacuum Coating Unit

The Vacuum coating unit is used for the vacuum thermal evaporation deposition technique. In this material to be deposited is heated rapidly until it directly converts into vapor state. The material vapors finally condense in the form of thin films on the cold substrate surface and on the vacuum chamber walls. The low pressure of  $10^{-6}$  or  $10^{-5}$  torr is established to rule out the possibility of reaction between the vapor and atmosphere.

### 2. The Impedance Analyzer

The impedance analyzer provides the precise and fast testing of devices at frequencies up to 10 MHz. The basic measurement accuracy is  $\pm 0.05\%$ . The accuracy and versatility makes this instrument ideal choice for many different tasks and applications including passive component design, dielectric material testing and resonant frequency characterization. Various AC measurement parameters like impedance, phase angle, capacitance, dissipation factor, inductance, quality factor, resistance, reactance, conductance, susceptance and admittance can be studied.

### 3. I. V. Current voltage characteristics measurement device

This instrument is used to take I.V. (Current Voltage) measurement without PC programming.

### 4. Muffle furnace with PID controller

Muffle furnace with PID controller is used to heat the material upto  $1200^{\circ}$  C. The heating process can be programmed.

### 5. Spin Coating Unit

Spin Coating unit can be used to deposit the material in a solution form on various substrate.

## ACHIEVEMENTS

### i) Fellowships / Honors / Awards ( Technical)

#### By Faculty

1. Membership of Nuclear Track Society of India to Dr. Sandeep Kansal.
2. Membership of National Radon Network Society to Dr. Sandeep Kansal.
3. Membership of Punjab Science Congress to Dr. Gagan Gupta.
4. Membership of ISTE to Dr. Gagan Gupta.
5. Membership of Indian Physics Association to Dr. Gagan Gupta.
6. Membership of Material Research Society of India to Dr. Rishi Kumar

## Technical Events Organized

### Guest / Expert / Invited Lectures / Talks

- Talk on Laser and fiber optics by Dr. Rohit Sharma, Associate Professor and Head, Department of Physics, BARNIT, Jalandhar on 6<sup>th</sup> November, 2015.
- Talk on Quantum Mechanics and Nanophysics by Dr. Manoj Sharma, Professor and Head, School of Physics and Material Sciences, Thapar University, Patiala on 18<sup>th</sup> November, 2015.
- Talk on Earthquake: causes, Prediction and building design by Dr. H. S. Virk, Professor, Department of Physics, GNDU, Amritsar on 9<sup>th</sup> February, 2016.
- Talk on Technology for sustainability by Dr. J. S. Aujla, Professor, Ministry of Power, Govt. of India, Noida on 11<sup>th</sup> March, 2016.

### Industrial Visits

- Students of M.Sc. (Physics) Final year visited SAIF center, Chandigarh on 3<sup>rd</sup> November, 2015.
- Students of M.Sc (Physics) Final year visited Science City, Kapurthala, on 8<sup>th</sup> April, 2016

## RESEARCH PROJECTS/ OUTCOMES

S. No.	Name of the faculty	Title of Research Project	Funding Agency	Grant Sanctioned (Rs., In Lakhs)
1.	Dr. (Prof.) S. Kansal	Measurement of Radon, Thoron and their Progeny Distribution in the Different Type of Houses and Natural radioactivity in soil in Hanumangarh, Churu and Sri Ganganagar Districts of Rajasthan.	BARC, DAE, Govt. of India	36,24,750/-

### Books Published by Faculty

#### International Publisher

1. Rishi Kumar (2016) Improved liquid crystal properties with development of nanomaterials. Lambert Academic Publishing, Germany. ISBN No. 978-3-659-90871-2.
2. Rajpal Singh (2016) Effective thermal conductivity of HDPE/Bronze. Lambert Academic Publishing, Germany. ISBN No. 978-3-659-90752-4.

## Research Publications

1. A. Nautiyal, N. Dabra, J. S. Hundal, N. P. Pathak, R. Nath (2015) Investigation on structural and ferroelectric properties of spray deposited Cs<sub>1-x</sub>K<sub>x</sub>NO<sub>3</sub>: PVA composite films. *IEEE Dielectric and Electrical Insulation*, 22(1): 251-256.
2. V. Annapu Reddy, N. Dabra, K. K. Ashish, J. S. Hundal, N. P. Pathak, R. Nath (2015) Multiferroic properties in nanostructured multilayered magnetic semiconductor Bi<sub>0.9</sub>La<sub>0.1</sub>Fe<sub>0.9</sub>Co<sub>0.1</sub>O<sub>3</sub>-BiFeO<sub>3</sub> thin films. *Advanced Materials Letters*, 6(8): 678-683.
3. N. Mishra, Navneet Dabra, A. Nautiyal, J. S. Hundal, G. D. Varma, N. P. Pathak, R. Nath (2015) Ferroelectric and switching properties of spray deposited NaNO<sub>2</sub>: PVA composite films on porous silicon. *Ferroelectric Letter Section*, 42(4): 75-86.
4. L. Singh, B. Kaur, N. Kumar, Dae-Yong Jeong, Navneet Dabra, J. S. Hundal (2016) Structural analysis of enhanced ferroelectricity in nano-composite films of sodium nitrite in poly-vinyl alcohol matrix fabricated at moderate elevated Temperature. *International Journal of Electrochemical Sciences*, 11: 4037-4049.
5. B. Kaur, L. Singh, V. Annapu Reddy, Dae-Yong Jeong, Navneet Dabra, J. S. Hundal (2016) AC impedance spectroscopy, conductivity and optical studies of sr doped bismuth ferrite nanocomposites. *International Journal of Electrochemical Sciences*, 11: 4120-4135.
6. B. Kaur, L. Singh, V. Annapu Reddy, Dae-Yong Jeong, Navneet Dabra, J. S. Hundal (2016) Study of a-site divalent doping on multiferroic properties of BFO nanoparticles processed via combustion method. *Advanced Materials Letters*, 7(12): 1015-1020.
7. Sandeep Kansal, Rohit Mehra, N.P. Singh, Pankaj Bala (2015) Evaluation and analysis of <sup>226</sup>Ra, <sup>232</sup>Th and <sup>40</sup>K and radon exhalation rate in the soil samples collected from some parts of western haryana, India for health risk assessment. *International Journal of Low Radiation*, 10: 1-13.
8. Rishi Kumar, Pooja Goyal, Manju Middha, KK Raina (2015) Morphological and dielectric relaxation responses of polymer stabilized ferroelectric liquid crystal composite films. *Journal of Thin Films, Coating Science Technology and Application*, 2(2): 1-5.
9. Manju Middha, Rishi Kumar, K.K. Raina (2015) Memory effects in chiral nematic liquid crystals doped with functionalized single walled carbon nano tubes. *Liquid Crystals*, 42: 1028-1035.
10. Rishi Kumar, K.K. Raina (2015) Morphological control and switchable photoluminescence responses of silica nanoparticles modified polymer dispersed liquid crystal composite films. *Liquid Crystals*, 42: 119-126.
11. Rishi Kumar, K.K. Raina (2015) Polarization switching and molecular relaxation behavior of anthraquinone dye dispersed polymer stabilized ferroelectric liquid crystal composites. *Liquid Crystals*, 42: 18-23.
12. Manju Middha, Rishi Kumar, K.K. Raina (2016) Effects of chirality on optical and electro-optic behaviour of nematic liquid crystals doped with functionalized silver nanoparticles. *Journal of Molecular Liquid*, 219: 631-636.



13. Manju Middha, Rishi Kumar, K.K. Raina (2016) Photoluminescence tuning and electro-optical memory in chiral nematic liquid crystals doped with silver nanoparticles. *Liquid Crystals*, 42: 1002-1008.
14. Manju Middha, Rishi Kumar, K.K. Raina (2016) Improved electro-optical response of induced chiral nematic liquid crystal doped with multi walled carbon nanotubes. *Ferroelectrics*, 495: 75-86.
15. Rishi Kumar, K.K. Raina (2016) Optical and electrical control of circularly polarized fluorescence in CdSe quantum dots dispersed polymer stabilized cholesteric liquid crystal shutter. *Liquid Crystals*, 42: 994-1001.

## Seminars/Conferences

### Papers presented

#### National

1. Sandeep Kansal, Rohit Mehra, Prayanka Goyal (2015) Assessment of natural radioactivity in soil samples using nai detector. 19<sup>th</sup> National Conference on Solid State Nuclear Track Detectors and Their Applications (SSNTDs-19), held at Dr BRA NIT Jalandhar, Punjab.
2. Rishi Kumar, Manju Middha, K.K. Raina (2016) Dielectric and optical investigations of induced memory in chiral doped nematic liquid crystals as function of frustration ratio. TEQIP II Sponsored International Conference on Latest Development in Materials, Manufacturing and Quality Control, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
3. Rajpal Singh, Rishi Kumar, Gagan Gupta, Mandeep Singh (2016) Solid waste management and its treatment. National Conference on Current Issues and Opportunities in Global Emerging Business Scenario, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
4. Gagan Gupta (2016) Simulation techniques to develop the thermal evolution of the asteroids in the early solar system. National Conference on Pervasive Computing by DAV College, Bathinda.

#### International

1. Rishi Kumar, Manju Middha, K.K. Raina (2016) Dielectric and optical investigations of induced memory in chiral doped nematic liquid crystals as function of frustration ratio. TEQIP II sponsored International Conference on Latest Development in Materials, Manufacturing and Quality Control, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

## Workshops / FDP / Short Term Courses /Orientation Courses / Refresher Courses

1. Sandeep Kansal (2016) Workshop on Design and Constructions of Steel Structure through NITTTT, held at Chandigarh College of Engg. and Tech. in May, 2016.
2. Rajpal Singh (2016) Workshop on Green and Energy Efficient Buildings through ICT 2016, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

3. Rishi Kumar (2016) Workshop on Green and Energy Efficient Buildings through ICT 2016, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
4. Gagan Gupta (2016) Workshop on Green and Energy Efficient Buildings through ICT 2016, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

### **Co-curricular/Extracurricular Events**

- Tarannum 2015, organized on 6<sup>th</sup> and 7<sup>th</sup> Oct., 2015.
- Fresher party, organized on 24<sup>th</sup> Sept., 2015.
- Farewell party organized on 11<sup>th</sup> April, 2016.

# Department of Architecture



*Creativity is Intelligence .....Enjoy the Learning*

"The Department of Architecture has been playing a vital role in producing architects of highest calibre ever since it was established in the year 1989. The infrastructure and lab facilities are upgraded from time to time, to provide adequate opportunities for students to learn and innovate. Educational tours, case studies, site visits, market surveys are also conducted time to time as they are part of their curriculum. The Department of Architecture is well equipped with state of art academic areas comprising of Lecture Rooms and Studios. The Exhibition space displays the students current work and recent achievements. The Department has additional Laboratory facilities which support the academic curriculum. The Department Resource centre is equipped with Thesis reports, and Training reports of approx. 23 passed out batches. The Department has distinguished faculty, all holding degrees from renowned institutes. Declared "Best Architecture college" by PTU in 2014. The consultancy is done for Architecture Design, Interior Design, and Landscape Design etc. Since 1995, more than 50 consultancy projects have been successfully completed."

**GLIMPSE OF THE DEPARTMENT**



*Model Making Lab*



*Software Lab*

## DEPARTMENT OF ARCHITECTURE

FACULTY		MAIN LABORATORIES	
<b>Head</b>		Computer Lab	
Ar. Ripudaman Singh	M.Arch.	Audio Visual Lab	
<b>Associate Professors</b>		Model Making Lab	
Ar. Ranjeet Kaur	B.Arch.		
Ar. Bhupinder Pal Singh	M.Tech.		
Ar. Jatinder Kaur	M.Tech.		
<b>Assistant Professors</b>			
Ar. Amandeep Kaur	M.Arch.		
Ar. Kajal Handa Arshi	M.Arch.		

### SPECIALIZED FACILITIES

#### 1. NATA ( National Aptitude Test in Architecture) Centre

Architecture department is a recognized NATA centre of Council of Architecture, New Delhi. The Centre became functional since 2007 and has conducted more than 800 tests till date. The NATA Centre is equipped with Computers, peripherals, printers etc. Two IP cameras have been installed to enable internet connectivity with NATA server at Pune.

#### 2. Architecture Consultancy

Architecture Department was established since 1989 and the department is involved in consultancy since 1995. The consultancy is done for Architecture Design, Interior Design, and Landscape Design etc. So far more than 50 consultancy projects have been completed.

### ACHIEVEMENTS

#### i) Fellowships / Honors / Awards ( Technical)

##### By Students

1. Mr. Robin Singh Bains, awarded gold medal in 1<sup>st</sup> Inter College Basketball Tournament held at Giani Zail Singh Campus College of Engineering and Technology, Bathinda held on 14<sup>th</sup> to 16<sup>th</sup> October 2015.
2. Silia Grover awarded gold medal in 1<sup>st</sup> Inter College Basketball Tournament held at Giani Zail Singh Campus College of Engineering and Technology, Bathinda held on 14<sup>th</sup> to 16<sup>th</sup> October 2015.
3. Avish Makhija awarded gold medal in Classical Non Percussion in Youth festival of MRSPTU at MIMIT College, Malout held on 6<sup>th</sup> to 7<sup>th</sup> Nov. 2015.
4. Avish Makhija awarded gold medal in Poster Making in Youth festival of MRSPTU at MIMIT College, Malout held on 6<sup>th</sup> to 7<sup>th</sup> Nov. 2015.
5. Puneet Kaur Sokhi awarded gold medal in On the Spot Painting in Youth festival of MRSPTU at MIMIT College, Malout held on 6<sup>th</sup> to 7<sup>th</sup> Nov. 2015.

6. Avninderpal Singh Mohi awarded Silver medal in Collage Making in Youth festival of MRSPTU at MIMIT College, Malout held on 6<sup>th</sup> to 7<sup>th</sup> Nov. 2015.
7. Lakshya Goyal awarded gold medal in Rangoli in Youth festival of MRSPTU at MIMIT College, Malout held on 6<sup>th</sup> to 7<sup>th</sup> Nov. 2015.
8. Silia Grover awarded gold medal in Triple jump in 1<sup>st</sup> Inter College Athletic Meet held at Giani Zail Singh Campus College of Engineering and Technology, Bathinda held in 2<sup>nd</sup> week of March 2016.
9. Mr. Amandeep Singh Malhotra, selected for Ar. S.D. Sharma best thesis award by A3 Foundation, Chandigarh.

#### By Faculty

1. Ar. Bhupinder Pal Singh, Associate Professor awarded A3 Foundation Journalism Award 2015-16, Chandigarh.
2. Ar. Jatinder Kaur, Associate Professor awarded A3 Foundation Best Teacher Award 2015-16.

### Technical Events Organized

#### Workshops / Faculty Development Program / Short term courses / Orientation courses / Refresher courses

- Workshop on Graphics and Sculpture Making, 31<sup>st</sup> Aug. 2015.
- Workshop on Graphics and Fine Arts, 12<sup>th</sup> Feb. 2016.

#### Guest / Expert / Invited Lectures / Talks

- Expert lecture on Electrical Services in Buildings by Mr. Ashok Arora, Superintendent, Bathinda on 14<sup>th</sup> Sept. 2015.
- Guest lecture on Architectural Design (Thesis) by Ar. Vijay Kumar, Practising Architect, New Delhi on 16<sup>th</sup> Oct. 2015.
- Guest lecture on Architectural Design (Thesis) by Ar. Neeraj Gupta, Practising Architect, New Delhi on 16<sup>th</sup> Oct. 2015.
- Expert lecture on Architectural Planning by Ar. Jit Kumar Gupta, Former Director, College of Architecture, IT Bhadal, on 24<sup>th</sup> Nov. 2015.
- Guest lecture on Architectural Design (Thesis) by Ar. Dr. Gaurav Raheja, Associate Professor, Department of Architecture, IIT Roorkee on 23<sup>rd</sup> Jan. 2016.
- Guest lecture on Architectural Design (Thesis) by Ar. Pinto Emerson, Associate Professor, Department of Architecture, GNDU Amritsar on 23<sup>rd</sup> Jan. 2016.
- Expert lecture on Housing by Ar. Jit Kumar Gupta, Former Director College of Architecture, IT Bhadal, on 12<sup>th</sup> Feb. 2016.
- Guest lecture on Architectural Design (Thesis) by Ar. Karamjit Singh, Associate Professor, Department of Architecture, GNDU Amritsar on 1<sup>st</sup> Mar. 2016.
- Guest lecture on Architectural Design (Thesis) by Ar. Rawal Singh Aulakh, Associate Professor, Department of Architecture, GNDU Amritsar on 1<sup>st</sup> Mar. 2016.

- Expert lecture on Architectural Design (Housing and Public Buildings) by Ar. Deepak Ghavri, Practising Architect, IT Bhadal, on 2<sup>nd</sup> Mar. 2016.
- Guest lecture on Architectural Design (Thesis) by Ar. Karamjit Singh, Associate Professor, Department of Architecture, GNDU Amritsar on 7<sup>th</sup> and 8<sup>th</sup> Apr. 2016.
- Guest lecture on Architectural Design (Thesis) by Prof. Sohan Lal Saharan, Associate Professor, CCA, Chandigarh on 7<sup>th</sup> and 8<sup>th</sup> Apr. 2016.

#### Industrial Visits

- Students of B. Arch. 2013 batch visited Ahmedabad and Diu, from 23<sup>th</sup> Sep. 2015 to 1<sup>st</sup> Oct. 2015 as a part of the industrial/ study tour.
- Students of B. Arch. Second and third Year visited Dehradun and Rishikesh, from 26<sup>th</sup> May 2016 to 29<sup>th</sup> May 2016 as a part of the industrial/ study tour.

#### Research Publications

1. Jatinder Kaur (2015) Energy Efficient Building Envelope– A key element of Sustainable Development in Indian cities. ABACUS, 9 (1): 243-246.

#### Papers Published in Conferences Proceeding

##### National

1. Jatinder Kaur, Prabhjot Kaur, Sanjiv K. Aggarwal (2015) Understanding building envelope design-beyond the realm of energy conservation building code. National Conference on Rediscovering Cities (NCRC), 263-270.

#### Seminars/Conferences

##### i) Papers presented

##### National

1. Jatinder Kaur, Prabhjot Kaur, Sanjiv K. Aggarwal (2015) Understanding building envelope design-beyond the realm of energy conservation building code. National Conference on Rediscovering Cities (NCRC), held at MMU Ambala.
2. Jatinder Kaur, Prabhjot Kaur, Sanjiv K. Aggarwal (2015) Envelope performance factor– a key indicator of an energy efficient building envelope. National Conference SBE-2015, held at IIT Roorkee.
3. Ripu Daman Singh, Prabhjot Kaur, J.N. Jha (2015) Investigating the architectural manifestations of path and place in sacred sikh architecture. National Conference SBE-2015, held at IIT Roorkee.
4. Bhupinder Pal Singh Dhot, Harpreet Sandhu, Gaurav Jindal (2015) Bansal haveli at Bathinda-sustainability paradigm. National Conference SBE-2015, held at IIT Roorkee.
5. Bhupinder Pal Singh Dhot, Kajal Handa Arshi, Gaurav Jindal (2015) Courtyard as a multi functional space from past to present. National Conference LDCEE, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
6. Bhupinder Pal Singh Dhot, Ramneet Kaur (2016) Role of envelope performance factor in energy

efficiency in buildings. National Conference on Regional Architecture, held at GNDU, Amritsar.

### Conferences attended

#### National

1. Jatinder Kaur (2015) National Conference on Rediscovering Cities (NCRC), held at MMU Ambala.
2. Jatinder Kaur (2015) National Conference SBE 2015, held at IIT Roorkee.
3. Ripu Daman Singh (2015) National Conference SBE-2015, held at IIT Roorkee.
4. Bhupinder Pal Singh Dhot, Kajal Handa Arshi, Gaurav Jindal (2015) National Conference LDCEE, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
5. Ramneet Kaur (2016) National Conference on Regional Architecture, held at GNDU Amritsar.

### Workshops / FDP / Short Term Courses /Orientation Courses / Refresher Courses

1. Jatinder Kaur (2016) Short term course on Green and Energy Efficient Buildings Through ICT, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
2. Amandeep Kaur (2016) Short term course on Green and Energy Efficient Buildings through ICT, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
3. Kajal Handa Arshi (2016) Short term course on Green and Energy Efficient Buildings through ICT, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
4. Gaurav Jindal (2016) Short term course on Green and Energy Efficient Buildings through ICT, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
5. Mitakshi Sharma (2016) Short term course on Green and Energy Efficient Buildings through ICT, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
6. Ramneet Kaur (2016) Short term course on Green and Energy Efficient Buildings through ICT, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
7. Guneet Kaur (2016) Short term course on Green and Energy Efficient Buildings through ICT held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

### Co-curricular/Extracurricular Events

- Farewell Party, organized on 24<sup>th</sup> Aug. 2015.
- Tarannum 2015, organized on 6<sup>th</sup> and 7<sup>th</sup> Oct. 2015.



# Department of Civil Engineering



## *Engineering the Future....*

“The Department of Civil Engineering pulls out all stops to create outstanding engineers with advanced teaching techniques and learning aids for undergraduate students and state of the art research facilities for postgraduate students and doctoral candidates. Students are not only made experts in technical aspects but also in interpersonal skills, a vital ingredient to excel in the fast-paced world. Well qualified and experienced faculty members from the department. They specialize in structural, geotechnical, environmental, water resources, transportation, surveying, and construction engineering, as well as management, remote sensing and GIS. The faculty members contribute to academic development by publishing books and presenting papers in international and national conferences. The labs are well equipped with state of the art equipment.”

**GLIMPSE OF THE DEPARTMENT**



*Spring Testing Machine*



*Torsion Testing Machine Lab*



*Total Station*



*Static Cone Penetrometer*

# DEPARTMENT OF CIVIL ENGINEERING

FACULTY	
<b>Head</b>	
Er. Gurprit Singh Bath	M.Tech
<b>Professors</b>	
Dr. Sanjiv Kumar Aggarwal	Ph.D.
Dr. Manjeet Bansal	Ph.D.
Dr. Rakesh Kumar Singla	Ph.D.
Dr. Bal Krishan	Ph.D.
<b>Assistant Professors</b>	
Er. Amanpreet Singh Virk	M.Tech .
Er. Harpreet Singh	M.Tech .
Er. Sunita Kotwal	M.Tech .
Er. Shamita Garg	M.Tech .

MAIN LABORATORIES
Transportation engineering lab
Environmental engineering lab
Concrete technology lab
Computer lab
Surveying lab
Structural engineering lab
Soil and geotechnical engineering lab
Strength of materials lab
Fluid mechanics lab

CORE AREAS
Transportation Engineering
Structural Engineering
Soil and Geotechnical Engineering
Construction Technology and Management

MAJOR EQUIPMENTS / INSTRUMENTS		
S. No.	Equipment/Instrument	Model/ Make
1	Portable analyzer kit	Brighturory Agencies, Punchkula
2	Marshal stability test apparatus	Precision Industries, Delhi
3	Lab CBR test apparatus (Electronic)	
4	Fifth wheel bump integrator	Roorke sales syndicate, Roorkee
5	Benkelman beam apparatus	AIMIL Ltd. New Delhi
6	Total station	South Precision Instruments Pvt. Ltd., New Delhi
7	Automatic level	Topear Singapore Pvt. Ltd., Singapore
8	Torsion testing machine	Harris & Tarris Karol Bagh, New Delhi
9	Spring testing machine (Electronic)	Hydraulic Engineering Instrument (HEICO), New Delhi
10	Hydraulic compression testing machine	Hydraulic Engineering Instrument (HEICO), New Delhi
11	Smoke density kit	Envirotech Instrument Pvt. Ltd., New Delhi
12	Spectrophotometer (UV-VIS)	Systronics Industries, Ahemadabad
14	BOD incubator	Medilab Enterpries, Chandigarh
15	Conductivity meter	Kapur Scientific Traders, Ambala Cantt
16	Water purification system	Ashok International, Chandigarh
17	Shaker holding 81 flask	Central Sales corporation, Chandigarh
18	Sample cutting machine	Harris & Tarris Karol Bagh, New Delhi
19	Triaxial test apparatus	Hydraulic Engineering Instrument (HEICO), New Delhi
20	Three bench type consolidation	
21	Direct shear test apparatus	
22	Load truss	
23	Static cone penetrometer	

## SPECIALIZED FACILITIES

### 1. Consultancy Cell

The consultancy cell of Civil Engineering Department is providing service to various central Government, state government's departments & Private agencies. The main facilities provided at this department related to Structural design of buildings, bridges and sewerage/ water treatment plants. The department is also providing consultancy in the field of soil engineering & have one of the best soil engineering labs in the state of Punjab. The revenue earned by the consultancy cell is increasing year by year and is Rs. 105.44 Lacs during 2015-16 financial year.

## Technical Events Organized

### ➤ Seminars/Conferences organized

- National Conference on Latest Developments in Civil and Environment Engineering, 15-16<sup>th</sup> Oct. 2015.

### Workshops/ Faculty Development Program/Short term courses/Orientation courses/Refresher courses

- Short term course on Green & Energy Efficient Buildings, 29<sup>th</sup> Feb. 2016.

### Guest/Expert/Invited lectures/ Talks

- Talk on Civil Services by Dr. Maninder Singh, Punjabi University Patiala on 21<sup>th</sup> Oct. 2016.
- Talk on Industrial Training by Mr. M.S. Kaushik, Career Counsellor on 26<sup>th</sup> Oct. 2016.
- Talk on CAT by Mr. Sony Goyal, Career Counsellor on 20<sup>th</sup> Oct. 2016.
- Talk on Fluid Mechanics by Mr. Devendra Singh Negi, Teacher on 14<sup>th</sup> March 2016.
- Talk on Introduction of Offshore Engineering by Er. Abhishek Sharma, Engineering Consultant on 05<sup>th</sup> Feb. 2016.
- Talk on Project Management of Civil Engineering Projects by Er. H.N. Sardesai, Engineering Consultant on 06<sup>th</sup> Feb. 2016.

### Industrial Visits

- Students of B. Tech. (Civil Engg.) Final Year visited Harike Head Works on 5<sup>th</sup> April 2016.
- Students of B. Tech. (Civil Engg.) Third Year visited construction activities on National Highway 7 on 10<sup>th</sup> Feb. 2016.
- Students of B. Tech. (Civil Engg.) Second Year visited beautification of galleria project Amritsar on 22<sup>nd</sup> Oct. 2016.
- Students of B. Tech. (Civil Engg.) Second Year visited Punjab remote sensing center, Ludhiana on 29<sup>th</sup> March 2016.

## Papers Published in Conferences Proceeding

### International

1. Manjeet Bansal (2016) Health and environmental hazards of e-waste-a brief study. Latest Developments in Material, Manufacturing & Quality Control, 521-526.
2. Manjeet Bansal (2016) Solar power: A green future. Latest Developments in Material, Manufacturing & Quality Control, 578-585.
3. Manjeet Bansal (2016) Machinery pollution: Its impacts and reasons. Latest Developments in Material, Manufacturing & Quality Control, 586-591.
4. Navinderdeep singh, Harpreet Singh and Gurprit Singh Bath (2016) Effect of Fly Ash on the properties of ground water. International Journal of Current Research and Modern education, 1-4.
5. Navinderdeep Singh, Harpreet Singh and Gurprit Singh Bath (2016) Assesment of ground water quality around fertilizer factor in Bathinda, Punjab . International Journal of Recent Trends in Engineering and Research, 58-60.
6. Jagmeet Singh, Harpreet Singh and Rajindervir Singh (2015) A review on utilization of rice husk ash in concrete. International Journal of Innovations in Engineering Research and Technology, 1-7.
7. Jagmeet Singh, Harpreet Singh and Rajindervir Singh (2015) Portland slag cement using ground granulated blast furnace slag. International Journal of Advanced Research in Engineering and Aplled Sciences, 47-53.

### National

1. Savita Rani, Seema Sharma and Manjeet Bansal (2015) Adsorption study on removal of heavy metal ions from waste water using agricultural waste of cereal crops & pulses. Latest Development In Civil & Environment Engineering (LDCEE'15), 43-47.
2. Keenu Nayyar, Gautam, Manjeet Bansal, Baljeet Singh and Yogesh Aggarwal (2015) Seismic analysis of a reinforced concrete building by response spectrum method at different zones. Latest Development In Civil & Environment Engineering (LDCEE'15), 97-100.
3. Ramanpreet Singh, Amanpreet Singh and Manjeet Bansal (2015) Comparison between properties of natural and recycled aggregates. Latest Development In Civil & Environment Engineering (LDCEE'15), 212-216.
4. Girdhari Thakur, Rishav garg, Ajau goyal, Abhishek sachdeva and Manjeet Bansal (2015) Comparative Study of cement mortar using rice husk. Latest Development In Civil & Environment Engineering (LDCEE'15), 222-226.
5. Gurprit Singh Bath and Harpreet Singh (2015) Experimental investigation on cement using copper slag. Latest Development In Civil & Environment Engineering (LDCEE'15), 227-235.
6. G.S. Bath, Pritpal Singh Bhullar and Gurjinder Singh (2015) Determination of key factors for hr policies for improving the performance of employees in construction industry. Latest Development In Civil & Environment Engineering (LDCEE'15), 295-299.
7. Daljit Singh, Gurprit Singh Bath and Inderjeet singh bath (2015) A case study on soil stabalization under floor unit area at Guru Gobind Singh refinery, Bathinda. Latest Development in Civil & Environment Engineering (LDCEE'15), 281-285.
8. Inderjeet Singh bath, Dhirendra singhal and G.S. Bath (2015) Comparison of design of foundation of a shopping complex situated at bathinda by deep foundation. Latest Development in Civil &

Environment Engineering (LDCEE'15), 253-258.

9. Dapinder deep singh, Bohar singh, Gurpreet Singh and G.S. Bath (2015) Effect of solid waste on ground water quality- a case study. Latest Development in Civil & Environment Engineering (LDCEE'15), 86-87.
10. Karamjot kaur, Sanjay Bhatnagar and Amanpreet Singh Virk (2015) Cloud computing- A review. Latest Development in Civil & Environment Engineering (LDCEE'15), 300-304.
11. Sanjiv Kumar Aggarwal (2015) Pervious concrete for sustainable urban development. Latest Development in Civil & Environment Engineering (LDCEE'15), 119-126.
12. Rakesh Kumar and Parminder Singh (2015) Utilization of waste ceramic tiles as coarse aggregate in concrete. Latest Development in Civil & Environment Engineering (LDCEE'15), 180-183.
13. Varun Kumar Sharma and Rakesh Kumar Singla (2015) Material selection for high performance concrete. Latest Development in Civil & Environment Engineering (LDCEE'15), 197-199.
14. Bal Krishan, Parveen Chander and Ramanpreet Singh (2015) Effect on Compressive strength of concrete with partial replacement of fine aggregate with marble dust powder. Latest Development in Civil & Environment Engineering (LDCEE'15), 259-263.

## Seminars/Conferences

### i) Papers presented

#### National

1. Sanjiv Kumar Aggarwal, Manjeet Bansal, Rakesh Kumar Singla, Bal Krishan, Gurprit Singh Bath, Amanpreet Singh Virk, Harpreet Singh, Sunita Kotwal, Shamita Garg (2015) National Conference on Latest Developments in Civil and Environment Engineering, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

### ii) Conferences attended

#### National

1. Sanjiv Kumar Aggarwal, Manjeet Bansal, Rakesh Kumar Singla, Bal Krishan, Gurprit Singh Bath, Amanpreet Singh Virk, Harpreet Singh, Sunita Kotwal, Shamita Garg (2015) National Conference on Latest Developments in Civil and Environment Engineering, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

## Workshops / FDP / Short Term Courses /Orientation Courses / Refresher Courses

1. Sanjiv Kumar Aggarwal, Manjeet Bansal, Rakesh Kumar Singla, Bal Krishan, Gurprit Singh Bath, Amanpreet Singh Virk, Harpreet Singh, Er. Sunita Kotwal, Er. Shamita Garg (2016) Short Term Course on Green & Energy Efficient Buildings, held at, Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

## Co-curricular/Extracurricular Events

- Tarannum 2015, organized on 6<sup>th</sup> and 7<sup>th</sup> Oct. 2015.
- Fairwell Party, organized on 11<sup>th</sup> Nov. 2015.

# Department of Computer Applications



*Through Learning We Flourish.....!!!*

“As the demand for computer professionals is increasing in the country department of computer applications was established in 2012. Currently department is running Masters in Computer Application (MCA) program from 2012-13 session. With the introduction of the program, the Campus uses its proficiency to help in catering the needs of IT industry. The department has become the centre of excellence in computing skills by producing technically competent, creative qualified professionals who can meet the challenges of modern computing industry and can work for the betterment of society.”

**GLIMPSE OF THE DEPARTMENT**



*Computer Lab-I*



*Computer Lab-II*



## DEPARTMENT OF COMPUTER APPLICATIONS

FACULTY	
<b>Head</b>	
Prof. Sanjay Bhatnagar	M.Phil.
<b>Assistant Professors</b>	
Ms. Nisha Gupta	M.S.
Er. Deepti Garg	M.Tech.
Ms. Karamjot Kaur	M.C.A.
Er. Rahul Garg	M.Tech.

CORE AREAS
Wireless Networks
Wireless Sensor Networks
Cloud Computing

MAIN LABORATORIES
Lab -1 (Computer Centre)
Lab -2 (Computer Centre)

MAJOR EQUIPMENTS / INSTRUMENTS		
S. No.	Equipment/Instrument	Model/ Make
1.	70 computer desktop systems	-
2.	Microsoft campus and school agreement CASA	Microsoft
3.	Internet connectivity 100 Mbps	Reliance
4.	Server 01	Dell
5.	Cyberoam	-

### SPECIALIZED FACILITIES

#### 1. Air Conditioned and Fully Equipped Labs

The department has air conditioned and fully equipped labs with latest software and hardware, which caters to computation needs of the students and faculty of all departments.

#### 2. Internet Facility

The department is providing 24-hour internet facility through Wi-Fi and LAN.

### ACHIEVEMENTS

#### i) Fellowships / Honors / Awards ( Technical)

##### By Students

1. Alisha Gupta won Third prize in slogan writing at UDAAN-16 organized by the departments of Computer Applications and Humanities and Management Studies, GZSCCET, Bathinda on 11<sup>th</sup> Feb. 2016.
2. Barkha Rani and Deepika Rani won Second prize in Nail Art at Manthan-16 on 17-18<sup>th</sup> March 2016 in S.S.D.W.I.T. Bathinda.
3. Alisha and Neha won First prize in Rangoli at Manthan-16 on 17-18<sup>th</sup> March 2016 in S.S.D.W.I.T. Bathinda.

##### By Faculty

1. Ms. Deepti Garg qualified GATE-2016.

### Technical Events Organized

- UDAAN-16 organized by the departments of Computer Applications and Humanities. and Management Studies, GZSCCET, Bathinda on 11<sup>th</sup> Feb. 2016.
- 'Swachh Bharat Abhiyan' on 28<sup>th</sup> Mar. 2016.

### Workshops/ Faculty Development Program/Short term courses/Orientation courses/Refresher courses

- Short term course organized by NITTTR Chandigarh and Departments of Computer Science and Computer Applications, GZSCCET, Bathinda.

### Guest / Expert / Invited Lectures / Talks

- Expert Lecture by Computer Applications Department on Communication Skills on 18<sup>th</sup> Jan. 2016.
- Expert Lecture by Humanities & Mgmt. Studies Department on Banking terms on 22<sup>nd</sup> Mar. 2016.

### Papers Published in Conferences Proceeding

#### International

1. Sanjay Bhatnagar (2016) Performance evaluation wireless LAN standards & communication applications for VANET. 1<sup>st</sup> International Conference on Latest Developments in Materials, Manufacturing and Quality Control (MMQC-2016).
2. Deepti Garg (2016) E-LEACH: An efficient low-energy adaptive clustering hierarchy. 1<sup>st</sup> International Conference on Latest Developments in Materials, Manufacturing and Quality Control (MMQC-2016), pp. 664-669.
3. Deepti Garg (2016) A comparative study of FEED with LEACH and HEED algorithms in wireless sensor networks. 1<sup>st</sup> International Conference on Latest Developments in Materials, Manufacturing and Quality Control (MMQC-2016), pp. 670-674.
4. Rahul Garg (2016) A comparative analysis of text extraction techniques in image processing. 1<sup>st</sup> International Conference on Latest Developments in Materials, Manufacturing and Quality Control (MMQC-2016).
5. Rahul Garg (2015) A comprehensive survey on various image and video steganography techniques. 1<sup>st</sup> International Conference on Latest Developments in Materials, Manufacturing and Quality Control (MMQC-2016).
6. Rahul Garg (2015) Comparative performance evaluation of routing protocols for ADHOC networks. 1<sup>st</sup> International Conference on Latest Developments in Materials, Manufacturing and Quality Control (MMQC-2016).

### Co-curricular/Extracurricular Events

- Tarannum 2016, organized on 6<sup>th</sup> and 7<sup>th</sup> Oct. 2015.
- Fresher party, organized on 13<sup>th</sup> Sep. 2015.

# Department of Computer Science & Engineering



*Encoding the Technology.....Decoding the Excellence*

“The Department of Computer Science & Engineering has been playing a vital role in producing programmers, researchers and technologists of uppermost caliber ever since it was established in the year 1997. The department runs undergraduate, post-graduate and Ph.D. programs to deliver computation requirements in all areas of Computer Science engineering. It has air conditioned and fully equipped Labs with latest Software and Hardware, which caters to the Computation needs of the students and faculty of all the departments. The department is providing 24 hour Internet facility. The infrastructure and lab facilities are upgraded time to time and provide adequate opportunities for students and researchers to learn and innovate. The department has proficient faculty, all holding degrees from renowned institutes.”

**GLIMPSE OF THE DEPARTMENT**



*RDBMS Lab*



*Software Lab*



*Networking Lab*



*Hardware Lab*

## DEPARTMENT OF COMPUTER SCIENCE &amp; ENGINEERING

FACULTY	
<b>Head</b>	
Dr. Naresh Kumar Garg	Ph.D.
<b>Professors</b>	
Dr. Paramjeet Singh	Ph.D.
Dr. Shaveta Rani	Ph.D.
<b>Associate Professors</b>	
Er. Abhilasha	M.S.
Er. Dinesh Kumar	M.Tech.
Er. Jyoti Rani	M.Tech.
<b>Assistant Professors</b>	
Dr. Gurpreet Singh	Ph.D.
Er. Swati	M.Tech.
Er. Namisha Modi	M.Tech.
Er. Meenu	M.Tech.
Er. Vaneet Mohan	M.Tech.
Er. Navdeep Kaur Khiva	M.Tech.
Er. Parul Garg	M.Tech.
Er. Navreen Kaur Boparai	M.Tech.
Er. Simardeep Kaur	M.Tech.
Er. Shipra	M.Tech.
Er. Jabarweer Singh	M.Tech.
Er. Manpreet Sidhu	M.Tech.
Er. Jasdeep Kaur	M.Tech.

CORE AREAS
Digital Image Processing
Optical Character Recognition
Wireless Sensor Networks
Wireless Adhoc Networks
Networking
Software Engineering
Data/ Web Mining
Network Security
Cloud Computing

MAIN LABORATORIES
RDBMS Lab
Software Lab
Networking Lab
Project Lab
Hardware lab

MAJOR EQUIPMENTS / INSTRUMENTS		
S. No.	Equipment/Instrument	Model/ Make
1.	30 computer desktop systems	Intel core i5 (3470)/ HP
2.	35 computer desktop systems	P-IV(dx 6100 MT)/ HP
3.	70 computer desktop systems	Intel i5 , preloaded windows 7/ Wipro
4.	30 computer desktop systems	P-IV with windows XP/ Lenovo
5.	1 Server	Intel PIII 933 MHZ(Dual Processor support)/ HP
6.	1 Computer Server	X 3400 (7975 Series)/ Pace Infosys Pvt. Ltd.
7.	11 UPS 5KVA	APC & MACROTEC
8.	2 LAN Trainer Kits	Benchmark Electronic System Pvt. Ltd.
9.	Oracle Server Enterprise Edition 8.0	Oracle Software India Ltd.
10.	MATLAB (25 USERS)	Version 2014/ MathWorks Inc.

## SPECIALIZED FACILITIES

### 1. **Air Conditioned and Fully Equipped Labs**

The department has air conditioned and fully equipped labs with latest software and hardware, which caters to computation needs of the students and faculty of all departments.

### 2. **Internet Facility**

The department is providing 24-hour internet facility through Wi-Fi and LAN.

## ACHIEVEMENTS

### i) **Fellowships / Honors / Awards ( Technical)**

#### **By Students**

1. Mr. Narsi Ram Jindal, Mr. Navdeep Singh Rajput , Ms. Sampada Bhatnagar, Ms. Himani , Prof. S.P.S Johal. 2nd prize in **Mine Maze competition at TRYST 2016**, organized by IIT-Delhi on 26<sup>th</sup> Feb, 2016 to 29<sup>th</sup> Feb, 2016.

### 2. **Android application named 'MRSPTU-Blood Donate' developed by Mr. Akash Maheshwari**

The motive of this application is to help should reach anyone who is in need of it. By using this application one can get the blood, doctor facility in any part of the Punjab. Any person who is above 18 years can register himself as donor, doctor, NGO. This application is also available on Google Play Store.

### 3. **Mr. Naman Wadhwa has developed an Android application named "Travel Buddy" and published it on the Google Play Store**

This app helps you to get updated information about your nearby services that are stored in Google's database using Google Maps. This app is running live on the Play Store and is attracting users from across the globe due to its superficial services and adaptive nature.

### 4. **Mr. Anurag Mathur, has developed an Android application named "Brainigma" and published it on the Google Play Store**

Brainigma is a puzzle game which integrates three intellectual and brainstorming puzzles created using specific algorithms. This app is running live on the Play Store and is attracting users from across the globe due to its astonishing graphics and customizability.

## Technical Events Organized

### **Workshops / Faculty Development Program /Short term courses / Orientation courses / Refresher courses**

- Workshop on Cloud Computing, 15<sup>th</sup> Sept. 2015 (Engineer's day).
- Workshop on Web development, 17<sup>th</sup> Sept. 2015.
- Workshop on LINUX, 12<sup>th</sup> -14<sup>th</sup> Oct. 2015.

- Workshop on JAVA, 16<sup>th</sup> Oct. 2015.
- Workshop on SAP, 17<sup>th</sup>-18<sup>th</sup> March 2016.
- Workshop on BIG DATA, 29<sup>th</sup> March 2016.
- **Guest / Expert / Invited Lectures / Talks**
- Expert lecture on Issues involving Employability of Engineer's on 1<sup>st</sup> Oct. 2015.
- Expert lecture on Latest Research and Trends by Gate Revolution on 10<sup>th</sup> March 2016.

#### Industrial Visits

- Students of B. Tech.(CSE) 2K14 Batch visited Rajputana Web Solutions, Bikaner on 12<sup>th</sup> March 2016.

#### Research Publications

1. Manisha Bansal, Naresh Garg (2016) Crossbreed thresholding text extraction procedure for images using DWT domain and SVM Classifier. International Journal of Computer Applications, 134(5): 23-28.
2. Naresh Garg (2015) Segmentation of touching modifiers and consonants in middle region of handwritten Hindi text. Pattern Recognition and Image Analysis, 25(3): 413-417.
3. Naresh Garg (2015) Recognition of handwritten hindi text using middle region of the words. International Journal of Software Innovations, 3(4): 62-71.
4. Kuldeep Kaur, Paramjeet Singh, Shaveta Rani (2016) Proposed QoE based scheduling scheme for all service classes in WiMAX. International Journal of Advanced Research in Computer Science and Software Engineering, 6(1): 318-322.
5. Amanjot Kaur, Paramjeet Singh, Shaveta Rani (2015) Spellchecking and error correcting system for text paragraphs written in punjabi language using hybrid approach. International Journal of Advanced Research in Science, Engineering and Technology, 2(11): 8030-8032.
6. Saroj Rani, Abhilasha, Swati Jindal (2015) implementation and analysis of identity spoofing attack using epidemic routing protocol in DTN. International Journal of Current Engineering and Scientific Research, 2(12): 20-26.
7. Yukti, Abhilasha (2015) A review on comparison of the geographic routing protocols in MANET. International Journal of Computer Applications Technology and Research, 4(10): 777-781.
8. Yukti, Abhilasha (2015) Destination aware APU strategy for geographic routing in MANET. International Journal of Computer Applications Technology and Research, 4(12): 960-965.
9. Kaveri Sharma, Abhilasha (2016) A study on effects of intrinsic characteristics of datasets on classification performance. International Journal of Advanced Research in Computer Science and Software Engineering, 6(1): 198-204.
10. Jyoti Rani (2015) Study of exemplar based image inpainting techniques. international journal of engineering sciences & research technology, 4(6): 727-732.

11. Mittali, Jyoti Rani (2015) A detailed survey on various image stitching techniques. International Journal of Computer and Information Technology, 4(5): 45-47.
12. Jyoti Rani (2015) Copy-move forgery attack detection in digital images. International Journal of Engineering Research and Technology, 4(6): 1211-1217.
13. Shruti Kapil, Meenu Chawla (2016) A review: comparative analysis of data mining algorithm for identification of numb users. International Journal of Computer Application, 6(2): 77-84.
14. Shaffy Goyal, Namisha Modi (2016) A review on various classification algorithms for online shopping data. International Journal of Computer Application, 6(2): 17-21.
15. Rechu Sharma, Vaneet Mohan (2016) Biometric identification using IRIS recognition system. International Journal of Computer Application, 6(2): 141-144.
16. Ravinder Kaur, Simardeep Kaur (2016) Review on detection and prevention of black hole and gray hole attack in MANETs. International Journal for Scientific Research & Development, 4(3): 2001-2004.
17. Shipra Singla, Jabarweer Singh (2016) An analysis of energy efficient homogeneous WSN protocols. International Journal of Energy Efficient Homogeneous WSN Protocols, 7(1): 573-579.
18. Shipra Singla, Karamjot Kaur (2016) Comparative analysis of homogeneous n heterogeneous protocols in WSN. International Journal of Science & Research, 5(6): 1300-1305.
19. Shipra Singla (2016) Review of energy efficient homogeneous WSN protocols. International Journal of Computer Science & Information Technology, 7(3): 1497-1501.
20. Parul Garg (2016) Fault tolerance and clustering in WSN- a review. International Journal for Scientific Research & Development, 4(3): 373-376.
21. Parul Garg (2015) Parametric comparative analysis of underwater wireless sensor network routing protocols. International Journal of Computing Applications 116(11): 29-35.
22. Parul Garg (2015) Dynamic CDBR for underwater wireless sensor networks. International Journal of Communications on Applied Electronics (CAE), 2(9): 19-24.

### Papers Published in Conferences Proceeding

#### International

1. P. Punhani, Naresh Garg (2015) Noise removal in MR images using non linear filters. International Conference on Computing, Communication and Networking Technologies, 1-6.
2. Naresh Garg (2015) Recognition of offline handwritten Hindi text using middle region of the words. International Conference on Computer and Information Sciences (ICIS), IEEE/ACIS, 325-328.
3. Deeksha Kapil, Abhilasha (2015) Face recognition of blurred images using image enhancement and texture features. IEEE 1st International Conference on Next Generation Computing Technologies (NGCT-2015), 894-897.
4. Harpreet Kaur, Jyoti Rani (2016) A survey on different techniques of steganography. International Conference on Advancements in Engineering & Technology (ICAET-2016), 610-615.



5. Shruti Kapil, Meenu Chawla (2016) Performance evaluation of K-means clustering using different distance metric. IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems, 110-116.
6. Meenu Chawla, Nitin Rakesh, S.P Ghrrera (2015) Fault tolerance based routing approach for WMN. IEEE International Conference on Computer and Computational Sciences – ICCCS-2015, 177-182.
7. Meenu Chawla, Rahul Garg (2016) Comparative performance evaluation of routing protocols for adhoc networks. International Conference on Latest Developments in Material, Manufacturing & Quality Control, 110-116.
8. Navreen Kaur Boparai, Amit Chhabra (2015) A hybrid approach for improving content based image retrieval systems. 1st International Conference on Next Generation Computing Technologies (NGCT), 120-126.
9. Parul Garg (2015) Improved distributed fault tolerant clustering algorithm for fault tolerance in WSN. International Conference on Micro- Electronics and Telecommunication Engineering, 145-150.

#### **National**

1. Meenu Chawla (2016) A survey of energy optimization techniques in wireless sensor networks. National Conference on Current Issues & Opportunities In Emerging Global Business Scenario, 80-84.
2. Shruti Kapil, Meenu Chawla (2016) Review on open source machine learning tool: WEKA. National Conference on Current Issues & Opportunities in Emerging Global Business Scenario, 85-89.
3. Rechu Sharma, Vaneet Mohan (2016) Biometric identification using IRIS. National Conference on Current Issues & Opportunities in Emerging Global Business Scenario, 90-94.

#### **Seminars/Conferences**

##### **i) Papers presented**

##### **International**

1. Naresh Garg (2015) Recognition of offline handwritten hindi text using middle region of the words. IEEE/ACIS Sponsored 14<sup>th</sup> International Conference on Computer and Information Sciences (ICIS), held at Los Vegas (USA).

#### **Workshops / FDP / Short Term Courses /Orientation Courses / Refresher Courses**

1. All Faculty Members (2015) FDP on Water Harvesting, Water Recycling and Water Resource Management, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

### Co-curricular/Extracurricular Events

- Digital India Week, celebrated on 6<sup>th</sup>-7<sup>th</sup> July 2015.
- Tarannaam 2015, organised on 6<sup>th</sup> and 7<sup>th</sup> Oct. 2015.
- Compkriti 2015 (Techno-Cultural Departmental Fest), organized on 3<sup>rd</sup> Nov. 2015.

# Department of Electrical Engineering



*EmPOWERing the Youth.....Enlightening the Future*

“The Department of Electrical Engineering has been playing a vital role in producing scientists and technologists of highest caliber ever since it was established in the year 1989. The department runs undergraduate program, post-graduate programs to cater to the ever challenging needs of technical excellence in areas of Electrical Engineering. 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 has distinguished faculty, all holding degrees from renowned institutes. The department also undertakes many research projects sponsored by both the government and the industry. This department prioritizes teaching students through continuously accredited electrical engineering degree programs. Under graduate electrical engineering students have access to a wide array of subjects including power systems, control systems, power electronics, electric circuits, electrical machines, electromagnetic, field theory electrical measurements and non-conventional energy sources, computer aided power system analysis, numerical methods etc.”

**GLIMPSE OF THE DEPARTMENT**



*Power System Lab*



*Computer Lab*



*Cultural Fest*



**Industry Visit at 500 kv Thanne Mumbai**

## DEPARTMENT OF ELECTRICAL ENGINEERING

FACULTY	
<b>Head</b>	
Dr. Ashok Kumar Goel	Ph.D.
<b>Associate Professors</b>	
Dr. Sarbjeet Kaur Bath	Ph.D.
<b>Assistant Professors</b>	
Er. Daljeet Kaur	M.Tech.
Er. Shimpy Maheshwari	M.Tech.
Er. Sonia Grover	M.Tech.
Er. Gaganpreet Kaur	M.Tech.
Er. Vishavdeep Jindal	M.Tech.
Er. Lakhvinder Singh	M.Tech.
Er. Manvir Kaur	M.Tech.
Er. Rohit Kumar	M.Tech.
Er. Gunjeetpal Singh	M.Tech.
Er. Money Goyal	M.Tech.

MAIN LABORATORIES
Power System Lab
Electrical Machine Lab
Science measurement
Microprocessor and control lab
Computer Lab
Basic electrical engg. & measurement lab
Power electronics & drives lab

MAJOR EQUIPMENTS / INSTRUMENTS	
S. No.	Equipment/Instrument
1.	Transformer oil testing set
2.	Digital servo system
3.	Pressure control trainer P-IV
4.	Matlab software
5.	PLC controllers
6.	Electrical machines
7.	Static convertor
8.	Three phase sailent pole synchronous alternator
9.	DC drive for operation of DC motor
10.	Harmonic/power quality analyser
11.	Bucholz relay
12.	Power engineering trainer with transmission line
13.	Oscilloscope 60 MHZ
14.	Scope meter test tool
15.	DC motor & DC generator Set

## SPECIALIZED FACILITIES

### MATLAB Software with different tool boxes

MATLAB (MATrix LABoratory) can be accessed from all computer networked in the institute and it integrates computation, visualization, and programming in an easy-to-use environment where problems and solutions are expressed in familiar mathematical notation. More than 25 numbers of application-specific solutions called toolboxes are available. This computing software is exceeding useful in project work, Research & Development.

## Technical Events Organized

### Industrial Visits

- Students of B.Tech. (Electrical Engg.) Final year 2012 batch visited 500 kv substation, Padghe Distt. Thane (Mumbai) on 28<sup>th</sup> Sep 2015 to 4<sup>th</sup> Oct 2015.
- Students of B. Tech. (Electrical Engg.) Final Year visited Thermal Power Plant, Bathinda on 12<sup>th</sup> April 2016.

## Research Outputs

### Books Published by Faculty

#### By International Publisher

1. Ashok Kumar Goel, R.K. Bansal and Manoj Kumar (2015) MATLAB and its application in engineering. Pearson Education, New Delhi, ISBN 978-93-325-4209-9.

#### Chapters Published in Books

1. Goel AK (2015) Artificial neural network and fuzzy logic in process modeling and control: computational intelligence and information technology. Springer, Berlin Heideberg, 234-237.
2. Goel AK (2015) contemporary computing: pruning of rulebase of a neural fuzzy inference network, Springer, Berlin Heideberg, 238-241.

## Research Publications

1. Bhavna Saini, Ashok Kumar Goel (2015) An effective and fast iris recognition system based on a combination of PCA and neural network. International Journal of Research in Electronics and Computer Engineering, 3: 29-34.
2. Babita Rani, Ashok Kumar Goel, Ravneet Kaur (2016) A modified approach for lung cancer detection using bacterial forging optimization algorithm. International Journal of Scientific Research Engineering & Technology, 5(1): 39-42.
3. Sujata Kataria, Ashok Kumar Goel (2016) A hybrid approaches for biometric authentication using fusion of fingerprint and signature. International Journal of Scientific Research Engineering & Technology, 5: 35-38.

4. Rupinderjit Singh, Ashok Kumar Goel (2015) Third order dispersion compensation in 40 Gbps single channel system under different modulation format. International Journal of Advanced Research in Electronics and Communication Engineering, 4: 2679-2685.
5. Rupinderjit Singh, Ashok Kumar Goel (2016) Analysis of third order dispersion and four wave mixing in 16\*25 Gbps DWDM optical system with variable channel spacing. International Journal of Engineering Development and Research, 4: 715-721.

## Seminars/Conferences

### Papers presented

#### International

1. Money Goyal, Moninder Singh, Mandeep Singh (2015) Classification of emotions using erp feature extraction. International Conference on Next Generation Information Technologies Sponsored by IEEE held at University of Petroleum & Technology, Dehradun.

#### National

1. Shimpy Maheshwari (2016) Analysis of load frequency control in an interconnected power system. National Conference on Emerging Trends in Engineering, Science & Management.
2. Shimpy Maheshwari (2015) Implementing automation in electrical. National Conference on Latest Developments in Civil & Environment Engineering.

## Workshops / FDP / Short Term Courses /Orientation Courses / Refresher Courses

1. Ashok Kumar Goel (2015) Short term course on Water Harvesting, Water Recycling and Water Resource Management, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
2. Shimpy Maheshwari (2015) Short term course on Green and Energy Efficient Buildings Through ICT, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
3. Sonia Grover (2015) Short term course on Green and Energy Efficient Buildings Through ICT, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
4. Daljeet Kaur (2015) Short term course on Green and Energy Efficient Buildings Through ICT, Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
5. Vishavdeep Jindal (2015) Short term course on Green and Energy Efficient Buildings Through ICT, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

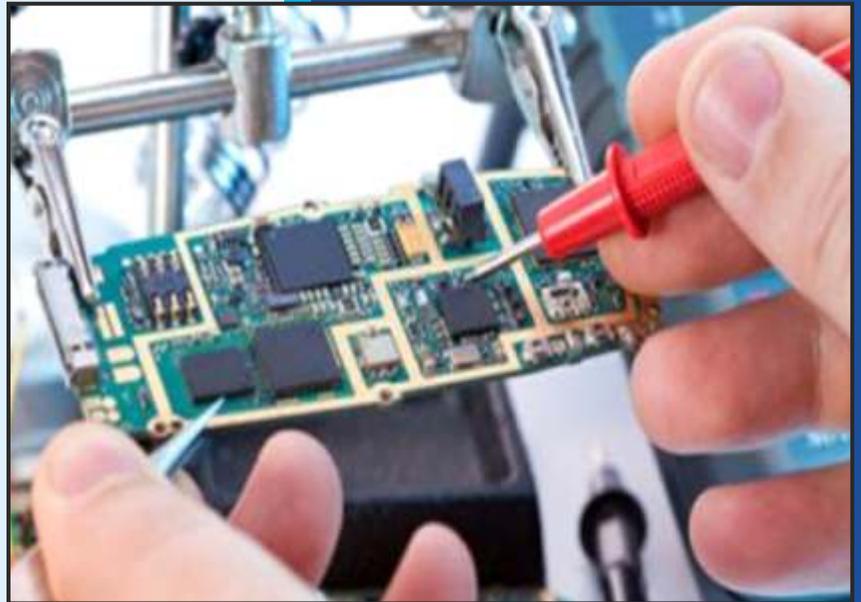
## Co-curricular/Extracurricular Events

- Fresher party, organized on 3<sup>rd</sup> Sept. 2015.
- Blood Donation Camp on 5<sup>th</sup> Oct. 2015.

- Tarannum 2015 organized in 6<sup>th</sup> and 7<sup>th</sup> Oct. 2015.
- ASER Camp on 15<sup>th</sup> Oct. 2015.
- Finishing School on 16<sup>th</sup> Dec. 2015.
- 'Swachh Bharat' Camp on 6<sup>th</sup> Feb. 2016.



# Department of Electronics & Communication Engineering



*Everyone Walks.....But We Lead !!*

“The Electronics and Communication Engineering (ECE) Department has a rich tradition in research and teaching. The research interests of the faculty members of the department encompass the wide area of applied and fundamental aspects of Electronics and Communication Engineering. Collaboration in between the research groups of the department and with other departments is also a practice. The broad areas of research and academic activities in the department are Communication Systems, Microelectronics and VLSI, RF and Microwave Engineering. The Department has strong research programmes leading to Ph.D. degree in all the areas of Electronics and Communication Engineering. A large number of Ph.D. scholars are currently engaged in cutting edge research in the Department. In addition to the well equipped curriculum related laboratories, the Department has many state of the art facilities for assisting research and development in solid state devices, VLSI, RF Engineering, digital signal processing, image processing and wireless technology.”

**GLIMPSE OF THE DEPARTMENT**



*Microwave Lab*



*Electronic Devices Lab*



*Expert Lecture*



*Communication Lab*

# DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

FACULTY	
<b>Head</b>	
Dr. Ashok. K. Goel	Ph.D.
<b>Professors</b>	
Dr. Savina Bansal	Ph.D.
Dr. Jyoti Saxena	Ph.D.
Dr. R.K. Bansal	Ph.D.
Dr. B.S. Sidhu	Ph.D.
<b>Associate Professors</b>	
Er. Neeraj Gill	M.Tech.
<b>Assistant Professors</b>	
Er. Sukhjinder Singh	M.Tech.
Er. Nikita Sehgal	M.Tech.
Er. Amandeep Kaur	M.Tech.
Er. Gagandeep Kaur	M.Tech.
Er. Ravneet Kaur	M.Tech.
Er. Navdeep Kaur	M.Tech.
Er. Veerdeep Kaur	M.Tech.
Er. Navpreet Singh	M.Tech.
Er. Baljinder Singh	M.Tech.

CORE AREAS
Soft Computing, Wireless Communication, Big data
High Performance, Energy Efficient & Fault - tolerant Computing
Communication Systems, Signal Processing
Real Time Computer Systems, Wireless Sensor Networks
Optimization Techniques

MAIN LABORATORIES
Electronic Devices and Circuits Lab
Microwave Lab
Communication Lab
Computer Lab (VLSI and Digital Signal Processing)
Microprocessor and Digital Electronics Lab
Embedded System Lab
Basic Electronics Lab

MAJOR EQUIPMENTS / INSTRUMENTS		
S. No.	Equipment/Instrument	Model/ Make
1.	Multisim software	NI13.0/National Instruments Systems, Bangalore
2.	Digital storage oscilloscopes 100MHz	TBS1102B-EDU/Tektronix, Bangalore
3.	MATLAB software with different tool boxes: (Centralized purchase)	R2014b/ MathWorks, Inc., US
4.	MATLAB and Simulink	R2014b/ MathWorks, Inc., US
5.	Xilinx HDL software	14.2I/Xilinx, Inc., Longmont, United States

## SPECIALIZED FACILITIES

### 1. MATLAB Software with different tool boxes

MATLAB (MATrix LABoratory) can be accessed from all computers networked in the institute. It integrates computation, visualization, and programming in an easy-to-use environment where problems and solutions are expressed in familiar mathematical notation. More than 25 numbers of application-specific solutions called toolboxes are available. This computing software is exceeding useful in project work, Research & Development.

## ACHIEVEMENTS

### i) Fellowships / Honors / Awards

#### By Students

1. Ms. Sarika Devi. Qualified GATE-2016 organized by Indian Institute of Science, Bangalore in February 2016.
2. Ms. Kiranjot Sharma. First prize for 400m (women) at inter-college organized by MRSPTU, Bathinda at GZSCCET, Bathinda in March, 2016.
3. Ms. Kiranjot Sharma. Third prize for 4x400m relay during athletic meet at GZSCCET, Bathinda in February 2016.
4. Mr. Prince Pandey. First position for off road battle organized by Gautam Buddha University, Greater Noida in April/May, 2016.
5. Ms. Kiranjot Sharma. Third position for cross country, organized by MRSPTU, Bathinda at GZSCCET, Bathinda in October, 2015.
6. Ms. Navleen Kaur and Ms. Divjot Kaur. First position in Bhangra event of JU-Rhythm-2016 organized by JECRC University, Jaipur in March, 2016.
7. Mr. Harkirat Singh and Mr. Simranjeet Singh Sahni. Second position at inter-college in lawn tennis organized by MRSPTU, Bathinda at SBSSTC, Ferozpur in October, 2015.
8. Mr. Sanchit Kalra . Master Trainer for ASER (Annual Status of Education Report) Camp, organised by Pratham NGO in October 2015.
9. Mr. Harjit Singh. Third prize in 4x100 m Relay in Inter College organized by MRSPTU, Bathinda at GZSCCET, Bathinda in March, 2015.
10. Mr. Harjit Singh. First prize in 100 m and 4x100 m Relay during athletic meet at GZSCCET, Bathinda in February 2016.
11. Mr. Dupinder Pal Sharma. First prize in Inter college cricket tournament and Third prize in Inter Batch Cricket Tournament. Awarded as Best bowler in Inter-batch cricket tournament.

**By Faculty**

1. Dr. Savina Bansal and Dr. Ashok Kumar Goel nominated to Academic Council of Maharaja Ranjit Singh Punjab Technical University, Bathinda for two years from 2015 to 2017.
2. Dr. Savina Bansal and Dr. Ashok Kumar Goel nominated to Academic Council of Shaheed Bhagat Singh State Technical Campus, Ferozepur for two years from 2015 to 2017.
3. Dr. Jyoti Saxena nominated to Board of Studies as chairperson for various UG & PG courses in Electronics Engineering, Electrical Engineering and Electrical & Electronics Engineering of Maharaja Ranjit Singh Punjab Technical University, Bathinda for two years from 2015 to 2017.
4. Dr. Savina Bansal, Dr. Ashok Kumar Goel, Dr. Rakesh Kumar Bansal and Dr. Balraj Singh Sidhu nominated to Board of Studies as members for various UG & PG courses in Electronics Engineering streams of Maharaja Ranjit Singh Punjab Technical University, Bathinda for two years of 2015 to 2017.
5. Dr. Savina Bansal nominated to Board of Studies as member of Electronics Engineering streams of Guru Dev Engineering College, Ludhiana.
6. Fellow of IE(I), & IETE and senior member CSI, ACCS and ISTE to Dr. Savina Bansal.
7. Dr. Ashok Kumar Goel and Dr. Jyoti Saxena received Certificate of Appreciation by DKOP Labs Pvt. Ltd., Noida.
8. Dr. Ashok Kumar Goel received Certificate of Honor by CETPA Infotech Pvt. Ltd., Chandigarh for recognition of his services in Electronics Engineering.
9. Life membership of ISTE to Dr. Ashok Kumar Goel.
10. Fellow of IE(I); life member of ISTE to Dr. Rakesh Kumar Bansal.
11. Dr. Rakesh Kumar Bansal nominated to Admission Committee, GZSCCET, Bathinda as Chairman during 2015-2016.
12. Dr. Rakesh Kumar Bansal nominated to 1<sup>st</sup> and 2<sup>nd</sup> IEEE Conference at GLA University, Mathura during 2015 and 2016 as Member, TCP.
13. Life member of ISTE and IE (I) to Dr. Jyoti Saxena.

**Technical Events Organized****Workshops / Faculty Development Program / Short term courses / Orientation courses / Refresher courses**

- One Day Workshop on Cloud Computing, 15<sup>th</sup> Sep. 2015
- One Day Workshop on VLSI Design, 20<sup>th</sup> Oct. 2015

**Guest / Expert / Invited Lectures / Talks**

- Talk on LaTeX Type Setting for Writing Quality Documentation by Dr. Satvir Singh Sidhu, Associate Professor & Head, SBS STC, Ferozepur on 29<sup>th</sup> Sep. 2015.

## Research Publications

### Books Published by Faculty

#### i) By International Publisher

1. Ashok Kumar Goel, R K Bansal and Manoj Sharma (2015) MATLAB and its application in engineering. Pearson Education, New Delhi. ISBN 978-93-325-4209-9.

### Research Publications

1. Bhavna Saini, Ashok Kumar Goel (2015) An effective and fast iris recognition system based on a combination of PCA and neural network. International Journal of Research in Electronics and Computer Engineering, 3: 29-34.
2. Babita Rani, Ashok Kumar Goel, Ravneet Kaur (2016) A modified approach for lung cancer detection using bacterial forging optimization algorithm. International Journal of Scientific Research Engineering & Technology, 5(1): 39-42.
3. Sujata Kataria, Ashok Kumar Goel (2016) A hybrid approach for biometric authentication using fusion of fingerprint and signature. International Journal of Scientific Research Engineering & Technology, 5: 35-38.
4. Rupinderjit Singh, Ashok Kumar Goel (2015) Third order dispersion compensation in 40 Gbps single channel system under different modulation format. International Journal of Advanced Research in Electronics and Communication Engineering, 4: 2679-2685.
5. Rupinderjit Singh, Ashok Kumar Goel (2016) Analysis of third order dispersion and four wave mixing in 16\*25 Gbps DWDM optical system with variable channel spacing. International Journal of Engineering Development and Research, 4: 715-721.
6. Sukhveer Singh, Savina Bansal, Sukhjinder Singh (2015) Design and analysis of e-shape sirpinski fractal antenna. International Journal of Advanced Research in Electronics and Communication Engineering, 4: 2129-2133.
7. Savina Bansal, Sunpreet Singh, Sukhjinder Singh (2015) Robust and secure image watermarking using DWT-SVD and chaotic map. International Journal of Advanced Research in Computer and Communication Engineering, 4: 111-116.
8. Eshani, Savina Bansal (2015) Performance analysis of various routing protocols used in MANETS. International Journal of Computer Science and Parallel Computing, 6:1-4.
9. Richa Bhatia, Ajay K. Sharma, Jyoti Saxena (2015) Performance evaluation of Nx80-Gb/s DWDM optical system over SSMF for CSRZ-DPSK and RZ-DPSK signals with optimized alternate polarization. Journal of Optical Communication, De-Gruyter, 10: 155-159.
10. Anmol Kumar and Jyoti Saxena (2015) MAI reduction in asynchronous MC-CDMA (4G) system using multiuser detection with different cross-correlation matrices. International Journal of Applied Engineering Research, 4: 14655-14667.
11. Nitin Thathai, Jyoti Saxena, Neel Kamal (2015) WDM based FSO system for long haul

- communication. International Journal of Engineering Research & Technology (IJERT), 3:794-798.
12. Supreet Sidhu, Jyoti Saxena (2015) Content based image retrieval: a review. International Journal of Research in Computer Applications and Robotics, 5: 84-88.
  13. Sippy, Jyoti Saxena, Sukhjinder Singh (2015) Hybrid protocol to improve network lifetime in wireless sensor network. International Journal of Computer Science and Communication Networks, 5:177-183.
  14. Kamaljeet Kaur, Shakti Kumar, Jyoti Saxena (2015) IT-2 fuzzy system design: a new defuzzication approach. International Journal of Electrical and Electronics Engineering, 4: 112-116.
  15. Harpreet Kaur, Jyoti Saxena, Sukhjinder Singh (2015) Key-point based copy-move forgery detection and their hybrid methods: A review. Journal of The International Association of Advanced Technology and Science (JIAATS-JEEE), 16(6): 1-7.
  16. Manpreet Bath, Jyoti Saxena, Ravneet Kaur (2015) Energy efficient data gathering in wireless sensor network using genetic algorithm. International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), 3(7): 4830-4833.
  17. Harpreet Kaur, Jyoti Saxena, Sukhjinder Singh (2015) Simulative comparison of copy-move forgery detection methods for digital images. International Journal of Electronics, Electrical and Computational System, IJEECS, 4: 62-66.
  18. Sahil Gupta, Jyoti Saxena, Sukhjinder Singh (2015) Design of random scan algorithm in video steganography for security purposes. IOSR Journal of Electronics and Communication Engineering (IOSR-JECE), 3: 14-20.
  19. Richa Bhatia, Ajay K. Sharma, Jyoti Saxena (2015) Comparative investigations of DWDM transmission system with PMD for different orthogonally modulated signals at 80Gb/s. International Journal of Communication Systems, 29: 1084-1090.
  20. Heena Goyal, Jyoti Saxena, Sanjeev Dewra (2015) Performance analysis of optical communication system using different channels. International Journal of Advanced Research in Computer and Communication Engineering, 4: 19-22.
  21. Hemant Bansal, Jyoti Saxena, Sukhjinder Singh (2015) Comparative analysis of 64-bits 6T SRAM Design using 90 nm and 180 nm Technology. International Journal of Research in Electronics and Computer Engineering (IJRECE), 3(4); 40-44.
  22. Shifa, D.S. Sidhu, Jyoti Saxena (2015) Recovery of coordinator device using adoption technique in zigbee network. International Journal of Advanced Research in Computer Science and Technology (IJARCST), 3(3): 55-58.
  23. Amanpreet Kaur, Jyoti Saxena, Ravneet Kaur (2015) Comparative analysis of GDI based D flip flop circuits using 90 nm and 180 nm Technology. International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE), 4(10): 2500-2502.
  24. Ramandeep Kaur, Ishwinder Singh, Jyoti Saxena, Sonia Grover (2015) Coal analysis in thermal power plant. International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE), 3(11): 14-15.

25. Supreet Sidhu, Jyoti Saxena, Sukhjinder Singh (2015) Simulative comparative analysis of different CBIR techniques. International Journal of Electrical and Electronics Engineers (IJEET), 7(2): 131-139
26. Karamjot Kaur, Jyoti Saxena, Sukhjinder Singh (2015) Simulative analysis of histogram equalization techniques for gray scale images. International Journal of Advanced Research in Computer and Communication Engineering, 4(12): 94-98.
27. Heena Goyal, Jyoti Saxena, Sanjeev Dewra (2016) Performance evaluation of OWC using different modulation techniques. J. Opt. Commun, 4: 1-4.
28. Deepinder Sharma, Jyoti Saxena (2016) Channel estimation of OFDM base system using BFO and neural network. International Journal of Advanced Computronics and Management Studies (IJACMS), 1(2): 6-10.

### Papers Presented / Invited Talks Delivered

- Session chaired by Dr. Savina Bansal and Dr Rakesh Kumar Bansal at Bhai Gurdas Group of Institutions, Sangrur on 18<sup>th</sup>-19<sup>th</sup> Mar. 2016 (at 4th International Conference on Advancements in Engineering and Technology, ICAET-2016)
- Expert talk by Dr. Ashok Kumar Goel at 4th International Conference on Advancements in Engineering and Technology (ICAET-2016) at Bhai Gurdas Group of Institutions, Sangrur on 19<sup>th</sup> Mar. 2016.
- Invited Lecture by Dr. Ashok Kumar Goel at Arsa College of Engineering & Technology, Bhawani Garh, Patiala on 23<sup>rd</sup> Apr. 2016
- Invited Lecture by Dr. Ashok Kumar Goel at DIT University, Dehradun at International Conference on Industry-Academic Partnership for Result Orientation Research on 27<sup>th</sup> Jun. 2015
- Chaired technical session by Dr. Savina Bansal and Dr. Rakesh Kumar Bansal of PDGC-2015 at JUIT, Solan
- Session Chaired by Dr. Savina Bansal and Dr. Rakesh Kumar Bansal; Member Advisory Committee at IEEE International Conference Next Generation Computing Technologies, University of Petroleum Energy Studies, Dheradoun on Sept. 2015
- Session Chaired by Dr. Savina Bansal at 6th National Conference on Communications & Networking (NCCN-2016), SLIET, Longowal on 5<sup>th</sup> Feb. 2016
- Expert Talk by Dr. Savina Bansal on Emerging India and Engineering Today at Punjabi University Regional Centre, Talwandi Sabho on 28<sup>th</sup> Sep. 2015
- Expert Talk by Dr. Savina Bansal on E-India at SLIET, Longowal on 5<sup>th</sup> Feb. 2016

### Papers Presented / Invited Talks Delivered

#### International

1. Savina Bansal, Rupinder Kaur and RK Bansal (2015) Performability analysis of irregular multistage interconnection networks. IEEE International Conference on Next Generation Computing Technologies, 280-284.
2. Sumeet Kaur, Savina Bansal and RK Bansal (2015) An efficient adaptive data hiding scheme for Image



- steganography. International Conference on Information and Communication Technology, 2194-5357.
3. Eshani and Savina Bansal (2015) Towards energy efficient scheduling with DVFS for precedence constrained tasks on heterogeneous cluster system. 2nd International Conference Recent Advances in Engineering and Computational Sciences (RAECS– 2015), 1-6.
  4. Kiran, Savina Bansal and RK Bansal (2016) On the energy efficient aspects of multicore processor computing system. 4th International Conference on Advances in Engineering & Technology. ICAET-16, 439-442.
  5. Savina Bansal, Mandeep Kaur (2016) Analyzing block type channel estimation for OFDM based Digital Communication system. 4th International Conference on Advances in Engineering & Technology. ICAET-16, 382-389.
  6. Savina Bansal, Harjeet Singh (2016) Comparison of channel estimators for OFDM channel estimation. 4th International Conference on Advances in Engineering & Technology. ICAET-16, 293-296.
  7. Savina Bansal, Silki (2016) Movement and context aware vector normalized preferred performance based vertical handover for heterogeneous networks, 5th IEEE International Conference on Recent Trends in Information Technology, ICTRIT-2016, 1-9.
  8. Harjiwan Singh, Jyoti Saxena, Sukhjinder Singh (2015) Segmentation of skin lesions from digital images using bacterial foraging optimization. IEEE International Conference on Computing, Communication and Automation, ICCCA-2015, 1126-1130.
  9. Parveen Singla, Jyoti Saxena (2015) Power control analysis of gaussian approximated WCDMA system under rayleigh fading channel. IEEE International Conference on Computing, Communication and Automation, ICCCA-2015, 1193-1201.
  10. Nirmal, RK Bansal (2015) Towards energy efficient scheduling with DVFS for precedence constrained tasks on heterogeneous cluster system. 2nd International Conference on Recent Advances in Engineering and Computational Sciences, RAECS– 2015, 1-6.

#### **National**

1. Savina Bansal, Karmjeet Kaur, RK Bansal (2015) Failure-dependent performance analysis of irregular fault-tolerant multistage interconnection network. NCACT-2015, National Conference on Advanced Communication Technologies, 59-63.
2. Savina Bansal, Rupinder Kaur, RK Bansal (2015) Performance analysis of regular and irregular multistage interconnection networks. NCACT-2015, National Conference on Advanced Comm. Technologies, 73-78.
3. Savina Bansal, Harjeet Singh (2015) Performance evaluation of channel estimators for time delay spreading OFDM system. NCACT-2015, National Conference on Advanced Comm. Technologies, 35-40.
4. Savina Bansal, Kiran, RK Bansal (2015) Task scheduling for energy-efficient-fault-tolerant real time systems: State of the art. NCACT-2015, National Conference on Advanced Comm. Technologies, 41-47.

#### **Workshops / FDP / Short Term Courses /Orientation Courses / Refresher Courses**

1. Ashok Kumar Goel (2015) Short Term Course on Water Harvesting, Water Recycling and Water Resource Management, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

2. Jyoti Saxena (2015) Short Term Course on Water Harvesting, Water Recycling and Water Resource Management, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

#### Co-curricular/Extracurricular Events

- Elektronika 2015, organized on 29<sup>th</sup> - 30<sup>th</sup> Sept. 2015.
- Fresher party, organized on 30<sup>th</sup> Sept. 2015.
- Tarannum 2015, organized on 6<sup>th</sup> and 7<sup>th</sup> Oct. 2015.

#### Co-curricular/Extracurricular Events

- Finishing school was organized in collaboration with department of Electrical Engineering, GZSCET, Bathinda on Concept Building for the benefit of final year students of B. Tech. ECE and EE on 16<sup>th</sup> - 30<sup>th</sup> Dec. 2015.
- Dr. Savina Bansal and Dr. Rakesh Kumar Bansal were the members of organizing committee of one day national seminar on Advances in Computing Techniques sponsored by MRSPTU, Bathinda held at Swami Vivekanand Institute of Engineering & Technology, Ram Nagar (Banur) on 25<sup>th</sup> Feb. 2016.
- Dr. Savina Bansal was Program-chair in the organizing committee of Faculty Development Program held at Bharat Group of Colleges, Sardulegarh on 20<sup>th</sup>-24<sup>th</sup> Feb. 2016.
- Dr. Savina Bansal was the member of organizing committee of National Conference on Advances in Science and Technology held at RIMT Institute of Engineering & Technology, Mandi Gobindgarh on 3<sup>rd</sup>-4<sup>th</sup> Mar. 2016.

# Department of Humanities & Management Studies



*Inculcating the true spirit of Business*

“The department was established with a vision to impart value education and to inculcate analytical skills in students to meet the changing needs of the corporate world. It presently offers MBA programmes in Human Resource, Finance and Marketing specialization. Overall development of the students and their grooming as per the current requirement of the corporate business and entrepreneurship are the main focus of learning at the department.”

**GLIMPSE OF THE DEPARTMENT**



*CS LAB for Communication Skill Development*



*Industrial Visit*



*Winners of Inter-college Competition*



*Kite Fest- "UDAAN"*



*National Conference By Humanities & Management Department*



*Expert Lecture*

## DEPARTMENT OF HUMANITIES &amp; MANAGEMENT STUDIES

FACULTY	
<b>Head</b>	
Dr. Suman Kathuria	Ph.D.
<b>Assistant Professors</b>	
Dr. Veerpaul Kaur Maan	Ph.D.
Dr. Pritpal Singh Bhullar	Ph.D.
Dr. Manu Gupta	Ph. D.
Ms. Anantdeep Kaur	M.Phil.
Mr. Puneet Bansal	M.Phil.
Ms. Pooja Sharma	M.Phil.
Ms. Samandeeep Kaur	M.B.A
Ms. Amaninder Kaur	M.B.A
Ms. Neha Narang	M.A.
Ms. Kirti Sidana	M.A.

MAIN LABORATORIES
Communicative English Lab

## ACHIEVEMENTS

## i) Fellowships / Honors / Awards ( Technical)

## By Students

- Ms. Shaivya Mangal, Mr. Amit Goyal, Mr. Harpreet Singh, Mr. Navdeep Singh and Mr. Mehtaabveer Singh, First prize for 'CORPORATE FASHION SHOW' at Cultural Fest MANTHAN'16, organized by SSD Women's Institute of Technology, Bathinda on March 17<sup>th</sup> & 18<sup>th</sup>, 2016.
- Ms. Amneet Sidhu and Ms. Shaivya, Second Prize in 'DEBATE' with the topic of "Useless Expenditure: Thumbs Up and Thumbs Down" at Cultural Fest MANTHAN'16, organized by SSD Women's Institute of Technology, Bathinda on March 17<sup>th</sup> & 18<sup>th</sup>, 2016.
- Ms. Anmol Rawat and Ms. Sakashi Jindal, First Prize in 'RANGOLI' Competition at Cultural Fest MANTHAN'16, organized by SSD Women's Institute of Technology, Bathinda on March 17<sup>th</sup> & 18<sup>th</sup>, 2016.
- Ms. Shaivya Mangal, Second Position and Ms.Amneet Sandhu & Ms. Ritu Kakkar, Third Position in Inter-college Paper Presentation Competition, Organized by DAV College, Malout on March 21<sup>th</sup>, 2016.

## Technical Events Organized

## Conference/Seminars

- Seminar on Waste Management, 2<sup>nd</sup> Sep. 2015.
- National Conference on Current Issues and Opportunities in Emerging Global Business Scenario, 7<sup>th</sup>-8<sup>th</sup> Apr. 2016.

**Workshops/ Faculty Development Program/Short term courses/Orientation courses/Refresher courses**

- Finishing School for Soft Skills, 24<sup>th</sup> Jan. – 06<sup>th</sup> April, 2016.

**Guest/Expert/Invited lectures/Talks**

- Expert Lecture on General Management by Dr. P.K. Jain, Professor, Sant Longowal Institute of Engineering & Technology, Longowal (Sangrur) on 2<sup>nd</sup> November, 2015.
- Expert Lecture on Business Communication by Dr. P.K. Jain, Professor, Sant Longowal Institute of Engineering & Technology, Longowal (Sangrur) on 16<sup>th</sup> March, 2015.
- Guest Lecture on Managerial Economics by Ms. Rupani, Deputy Manager, Punjab National Bank, Sangatmandi (Bathinda) on 22<sup>nd</sup> March, 2016.
- Guest Lecture on Soft Skills by Mr. Soni Goyal, Managing Director, My Career, Bathinda on 29<sup>th</sup> March, 2016.

**➤ Industrial Visits**

- Students of M.B.A. First & Second Year visited Guru Gobind Singh Refinery Plant, Bathinda on 30<sup>th</sup> Oct. 2015.
- Students of M.B.A. First & Second Year visited Guru Hargobind Thermal Power Plant, Lehra Mohabat, Bathinda on 10<sup>th</sup> Mar. 2016.

**Research Outputs****Books Published by Faculty****By National Publisher**

1. Pritpal Singh Bhullar, Dayal Bhatnagar (2015), Fundamentals of Investment (For M.Com Punjabi University, Patiala), Kalyani Publishers, Jalandhar. ISBN: 978-93-272-5023-7.

**Research Publications**

1. Suman Kathuria (2015) Measuring the role of personality in organization development. SSRG International Journal of Engineering Trends and Technology, 6(4): 6-9.
2. Veerpaul Kaur (2016) Financial inclusion: csr approach by financial sector or a profitable venture approach. IJMIE, 6(8): 173-189.
3. Pritpal Singh Bhullar, Dipayan Roy (2016) Determination of sustainable business strategies during recession: An indian perspective. International Journal of Management Science & Business Research, 5(1): 38-47.
4. Pritpal Singh Bhullar, Manika Dhamja (2016) Empirical analysis of long run equilibrium between exchange rate and foreign exchange reserve. International Journal of Management, 7(6): 88-97.

**Seminars/Conferences****Papers presented****International**

1. Suman Kathuria (2015) Institutionalizing strategy in human resource management. International Conference on Recent Research Development in Environment, Social Sciences and Humanities, 1-6.

**National**

1. Suman Kathuria (2015) Hazards, risk and safety measures in chemistry laboratory. Latest Development in materials, Manufacturing and Quality Control, 422-425.
2. Suman Kathuria (2015) Role of information technology in banking. Issues and Innovations in Service Sector, 186-188.
3. Veerpaul Kaur (2015) World class manufacturing. MMQC, 15-19
4. Samandeep Kaur (2015) Consumer behavior towards environmental marketing and its sustainable expansion. TEQIP-II Sponsored, National Conference on Latest Developments in Civil and Environment Engineering, 217-221.
5. Gurpreet Singh Bath, Pritpal Singh Bhullar, Gurjinder Singh (2015) Determination of key factors for hr policies for improving performance of employees in construction industry. TEQIP-II Sponsored, National Conference on Latest Developments in Civil and Environment Engineering, 71-72.
6. Manu Gupta, Suman Kathuria (2016) Role of trust in preserving social capital. National Conference on Current Issues and Opportunities in Global Emerging Business Scenario, 20-27.
7. Suman Kathuria, Puneet Bansal, Rupani (2016) Supply chain management: An overview. national conference on current issues and opportunities in Global Emerging Business Scenario, 68-70.
8. Poonam Salwan, Veerpaul Kaur Maan (2016) Impact of leadership on e- governance in India. National Conference on Current Issues and Opportunities in Global Emerging Business Scenario, 51-59.
9. Pritpal Singh Bhullar, Ajay Deep Singh Brar (2016) Corporate debt restructuring: a tool for debt management. National Conference on Current Issues and Opportunities in Global Emerging Business Scenario, 229-240.
10. Pritpal Singh Bhullar, Anantdeep Kaur, Samandeep Kaur (2016) IPO performance & sensex: a comparative analysis of five sectors. National Conference on Current Issues and Opportunities in Global Emerging Business Scenario, 293-302.
11. Pooja Sharma (2016) Empowerment of bottom of the pyramid market: Entrepreneurship education. National Conference on Current Issues and Opportunities In Global Emerging Business Scenario, 126-134.

**Workshops / FDP / Short Term Courses /Orientation Courses / Refresher Courses**

1. Suman Kathuria (2015) Short term course on Water Harvesting, Water Recycling and Water Resource Management, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
2. Samandeep Kaur (2015) Short term course on Water Harvesting, Water Recycling And Water Resource Management, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
3. Suman Kathuria (2016) Short term course on Green and Energy Efficient Buildings, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

4. Pritpal Singh Bhullar (2016) Short term course on Green and Energy Efficient Buildings, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
5. Anantdeep Kaur (2016) Short term course on Green and Energy Efficient Buildings, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
6. Puneet Bansal (2016) Short term course on Green and Energy Efficient Buildings, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
7. Samandeep Kaur (2016) Short term course on Green and Energy Efficient Buildings, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
8. Pooja Sharma (2016) Short term course on Green and Energy Efficient Buildings, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
9. Manu Gupta (2016) Short term course on Green and Energy Efficient Buildings, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
10. Amaninder Kaur (2016) Short term course on Green and Energy Efficient Buildings, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.
11. Kirti Sidana (2016) Short term course on Green and Energy Efficient Buildings, held at Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda.

#### Co-curricular/Extracurricular Events

- Udaan 2016, organized on 11<sup>th</sup> Feb. 2016.
- Technical Event “Best Manager” in TARANNUM'15 on 6<sup>th</sup> -7<sup>th</sup> Oct. 2015.



# Department of Mechanical Engineering



*Training to Achieve Excellence!*

“The department offers B. Tech and M.Tech programs in Mechanical Engineering. The department has competent and committed faculty members drawn from industry, practicing professionals and academicians to enhance the delivery of academic programs. It has evolved a comprehensive student-centric learning approach, designed to add significant value to the learner's understanding in an integrated manner through workshops, lab sessions, assignments, training, seminars, projects and independent study. The hands-on training offered our CAD/CAM training in latest design software brings in a formal method of familiarizing with the industrial practices helps the students to apply their class room knowledge to live industrial situations. The department is equipped with a computer centre with latest design and analysis software.”

**GLIMPSE OF THE DEPARTMENT**



*Hydraulic Machinery Lab*



*RAC Lab*

# DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY	
<b>Head</b>	
Prof. Surinder Singh	M.S.
<b>Professors</b>	
Dr. Balwinder Singh Sidhu	Ph.D.
Dr. Rajesh Gupta	Ph.D.
<b>Associate Professors</b>	
Er. Charanjit Singh	M.E.
Er. Surinder Singh	M.E.
Er. Naveen Singla	M.E.
Er. SPS Johal	M.E.
Er. J.S Tiwana	M.E.
Dr. Harish Garg	Ph.D.
<b>Assistant Professors</b>	
Er. Vivek	M.Tech .
Er. Yadwinder Pal Sharma	M.Tech .
Er. Haramritpal Singh Sidhu	M.Tech .
Er. Kanwaljit Singh	M.E.
Er.Gagandeep Singh Sodhi	M.Tech .
Er. Mandeep Singh	M.E.
Er. Jagdeep Sharma	M.Tech .
Er. Mandeep Kaur Sidhu	M.Tech .
Er. Amrit Pal	M.Tech .
Er. Manupreet Singh	M.Tech .
Er. Arvind	M.Tech .
Er. Navjot Singh	M.E.
Er. Jashandeep Puri	M.Tech .
Er. Harjeet Singh	M.Tech .
Er. Parampal	M.Tech .
Er. Surinder Singh	M.Tech .

CORE AREAS
Investment Casting
Supply Chain Management
Rapid Prototyping

MAIN LABORATORIES
Heat Transfer Lab
Industrial Automation & Robotics Lab
Computer Lab - I
Mechanical Measurement & Metrology Lab
Theory of Machines Lab
Hydraulic M/c Lab
Metallurgical and Heat Treatment Lab
Computer Lab - II
RAC Lab
Thermo lab

MAJOR EQUIPMENTS /INSTRUMENTS	
S. No.	Equipment/Instrument
1.	Metallurgical microscope
2.	Slow speed saw diamond cutter
3.	Micro hardness tester
4.	Image analyzer with microscope
5.	Air jet erosion
6.	Wear and friction monitor
7.	Digital universal testing machine
8.	Multi functional digital measuring instrument
9.	Profile projector
10.	Electronic plunger gauge
11.	Clinometers
12.	Optical dividing head
13.	Oil power hydraulic trainer kit
14.	Closed loop temperature control system

**SPECIALIZED FACILITIES**

1. Tool Room Microscope
2. Slip Gauge Set
3. 3-D co-ordinate measuring machine
4. Optical Autocollimator
5. Surface roughness tester
6. Pneumatic trainer kit
7. Electro Hydraulic Servo Trainer
8. XL Turn Table Top
9. Robot 6 axis Model

**ACHIEVEMENTS****Fellowships / Honors / Awards ( Technical)  
By Students**

1. Student team bagged first position and won the prize money of Rs 1.5 lacs in 'Off Road Battle' National level competition held at Gautam Budha University, Noida from 28<sup>th</sup> to 31<sup>st</sup> March, 2016.

**Technical Events Organized**

- Department of Mechanical Engineering organized International Conference on 'Latest Developments in Materials, Manufacturing and Quality Control' from 12-13<sup>th</sup> February, 2016 under TEQIP-II.

**Research Publications**

1. Sukhpal Singh Chatha, Amrit Pal, Tarjeet Singh (2016) Performance evaluation of aluminium 6063 drilling under the influence of nanofluid minimum quantity lubrication, Journal of Cleaner Production, 137: 537-545.
2. Pankaj Dhiman, Gagandeep Singh Sodhi, Rajesh Gupta (2015) To optimize the effect of various parameters on the performance of vapor compression refrigeration cycle. International Journal of Engineering Research & Technology, 4(7): 192-199.
3. Harish Kumar Garg (2015) Development of new composite material for rapid tooling using fused deposition modeling. Material Science Forum, 808: 103-108.
4. Harish Kumar Garg (2015) Some investigations on fe-nylon6 based hybrid FDM filament. International Journal for Mechanical Engg and Material Science, 8(1): 65-68.
5. Harish Kumar Garg (2015) Comparison of wear behavior of ABS and Nylon6-Fe powder composite parts prepared with fused deposition modeling. Journal of Central South University, 3705-3711.
6. Harish Kumar Garg (2016), Investigations for melt flow index of Nylon6-Fe composite based hybrid FDM filament. Rapid Prototyping Journal, 7: 338-343.
7. Sharma, P., B.S. Sidhu, J. Sharma (2015) Investigation of effects of nanofluids on turning of AISI D2 steel using minimum quantity lubrication. Journal of Cleaner Production, 108: 72-79.

8. Pankaj Dhiman, Gagandeep Singh Sodhi, Rajesh Gupta (2015) To optimize the effect of various parameters on the performance of vapor compression refrigeration cycle. *International Journal of Engineering Research & Technology (IJERT)*, 4(7): 1219-1225.
9. Arvind Mittal, Harish Arya and Rajesh Gupta (2015) Influence of heat input on microstructure and mechanical properties of shield metal arc welded duplex stainless steel (UNS NO. S-31803). *Asian Review of Mechanical Engineering*, 4(1): 53-58.
10. Pardeep Kumar and B.K. Mishra (2016) Investigations of the effect of injection parameters on the quality of wax patterns used in ceramic shell investment casting. *International Journal of Manufacturing Technology and Management*, 21(1/2):148-159.
11. Harmandeep Singh, Pawan Kumar Sapra (2015) Thermogravimetric investigation of mustard straw and its ash in oxidizing and inert atmosphere. *International Journal of Mechanical engineering & materials science*, 8(1): 59-64.
12. Jagdeep Sharma, Puneet Sharma (2015) Investigation of effects of nanofluids on turning of AISI D2 steel using minimum quantity lubrication. *Journal of Cleaner Production*, doi:10.1016/j.jclepro.2015.07.122,ISSN: 0959.
13. Haramritpal Singh Pardeep Kumar and Balwinder Singh (2016) Effect of under surface cooling on tensile strength of friction stir processed aluminium Alloy 6082. *Asian Journal of Engineering and Applied Technology*, 5(1): 40-44.
14. Balwinder Singh and Rajesh Gupta (2016) Effect of process parameters on the hardness and impact strength of ceramic shell investment cast aluminum alloy ADC12. *Asian Review of Mechanical Engineering*, 5(2):1-5.
15. Balwinder Singh Lakhwinder Singh (2016) Effect of process parameters on surface finish of LM-25 aluminum alloy casting produced by green sand moulding. *American Journal of Engineering Research*, 5(9): 75-78.
16. Balwinder Singh Sukhchain Singh, Jagdeep Sharma (2016) Effect of nitro carburizing and post oxidation on micro hardness and wear resistance of en-8 steel, *International Journal of Modern Engineering Research*, 6(9): 140-144.
17. Balwinder Singh Lakhwinder Singh, Effect of green sand moulding parameters on hardness of LM-25 aluminum alloy castings, *International Journal of Innovative Studies in Sciences and Engineering Technology*, 2(9):16-19.

### Papers Published/Presented in Conferences Proceeding

#### International

1. Jasvir Singh Tiwana, Anish Goyal (2015) Investigation of wear behavior of different steels for stamping of mild steel. *International Conference on Latest Developments in Materials Manufacturing and Quality Control*, 215-218.
2. Sukhpal Singh Chatha, Amrit Pal (2015) The effect of minimum quantity lubrication on drilling performance- A review. *International Conference on Latest Developments in Materials, Manufacturing and Quality Control*, 212-215.

3. Simranjit Singh Sidhu, Shiv Pal Singh, Gagandeep Singh Sodhi (2015) Twin-riser system optimization using fem. International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 205-211.
4. Pankaj Dhiman, Gagandeep Singh Sodhi, Rajesh Gupta (2015) Analysis of the effect of coiled capillary tube pitch and refrigerant on vapour compression refrigeration system performance. International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 311-315.
5. Ripandeep Singh, Naveen Kumar, Manupreet Singh (2015) Effect of FSP multipass on microstructure, impact strength and hardness of Al6063. International Conference on Latest Developments in Materials, Manufacturing and Quality, 39-44.
6. Kanwal jeet singh, Manupreet Singh (2015) Hydromagnetic mixed convection flow through porous medium in a hot vertical channel with spanwise cosinusoidal temperature and heat radiation. International Conference on Latest Developments in Materials, Manufacturing and Quality, 263-269.
7. Harish Kumar Garg (2016) Abrasive wear in ground engaging tools and its remedial measures. International Conference on Latest Developments in Materials, Manufacturing and Quality, 164-167.
8. Harish Kumar Garg (2016) Study of microstructure and hardness of NiCr and NiCrAlY coating on SA210 and T11 boiler tubes, International Conference on Latest Developments in Materials, Manufacturing and Quality, 413-421.
9. Pankaj, Vikas Mehta, Sunil Kumar and Rajesh Gupta (2016) Performance analysis of vapour compression refrigeration cycle using nano-refrigerant. International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 229-233.
10. Vikas Mehta, Pankaj, Ramesh Kumar Jha and Rajesh Gupta (2016) Effect of capillary tube shapes on the performance of vapour compression refrigeration cycle using nano-refrigerant. International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 234-241.
11. Rajesh Gupta (2016) Optimization of EDM parameters on surface roughness of AISI- D3 tool steel. International Conference on Latest Developments in Materials, Manufacturing and Quality Control (MMQC), 371-376.
12. Balwinder Singh, Rajesh Gupta, Jagdeep Sharma (2016) Effect of thermal assisted machining (TAM) on material removal rate of EN 31 steel. International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 422-426.
13. Arvind Mittal, Rajesh Gupta (2016) Effect of heat input on micro hardness and metallurgical properties of shield metal arc welded duplex stainless steel. International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 427-432.
14. Ujjwal Dudy, Rajesh Gupta (2016) Effect of tool pin length on the micro hardness of friction stir welded aluminium alloy 6063, International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 433-438.
15. Rajesh Gupta (2016) A framework for measuring logistics performance index of Indian states:

- International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 740-745.
16. Arvind Mittal and Rajesh Gupta (2015) A review on arc welded duplex stainless steel UNS S31803. National Conference on Latest Developments in Materials, Manufacturing and Quality Control, 240-243.
  17. Pankaj Dhiman, Gagandeep Singh Sodhi and Rajesh Gupta (2015) Analysis of the effect of coiled capillary tube pitch and refrigerant on vapour, International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 311-315.
  18. Vikas Mehta, Mandeep Singh, Rajesh Gupta (2015) Analysis of effects of different blends of linseed biodiesel on the performance of four-stroke engine. International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 453-458.
  19. Balwinder Singh Sidhu, Rajesh Gupta, Jagdeep Sharma (2015) Salt bath nitro carburizing process– A review, International Conference on Latest Developments in Materials, Manufacturing and Quality Control, 232-235.
  20. J Sharma (2015) Salt bath nitrocarburizing process: A review. International Conference on Latest Developments in Materials, Manufacturing and Quality Control at GZSCET, Bathinda.
  21. J Sharma (2015) Investigation of effects of TAM on En-31 Steel. International Conference on Latest Developments in Materials. Manufacturing and Quality Control at GZSCET, Bathinda.
  22. Kanwal Jeet Singh, Inderpreet Singh Ahuja, Jatinder Kapoor (2015) Ultrasonic machining of glass brittle material. International Conference on Latest Development in Materials Manufacturing and Quality Control.
  23. Kanwal Jeet Singh, Balraj Singh (2015) Hydromagnetic mixed convection flow through porous medium in a hot vertical channel with spanwise cosinusoidal temperature and heat radiation. International Conference on Latest Development in Materials, Manufacturing and Quality Control.
  24. Satinder Kaur, Kanwal Jeet Singh (2015) Preparation and photo degradation analysis of substituted flavones-review. International Conference on Latest Development in Materials, Manufacturing and Quality Control.
  25. Mohit Kumar, Kanwal Jeet Singh (2015) Friction stir welding by doping of material- review. International Conference on Latest Development in Materials, Manufacturing and Quality Control.
  26. Kanwal Jeet Singh (2015) Study the effect of abrasive and hydrofluoric acid in ultrasonic machining of plain glass material. International Conference on Latest Development in Materials, Manufacturing and Quality Control.
  27. Syedshauzab Abidi, Simranjit Singh Sidhu, Manupreet Singh (2015), Ergonomic posture and musculo skeletal problems in architecture students: International Conference on Latest Developments in Materials, Manufacturing and Quality.
  28. Ashish, Kanwal Jeet Singh (2016), A review on future aspect of 3D printing technology. International Conference on Latest Development in Materials, Manufacturing and Quality Control.
  29. Kanwal Jeet Singh (2016), Versatility of EGR review paper. International Conference on Latest

Development in Materials, Manufacturing and Quality Control.

30. Pardeep Singh, Kanwal Jeet Singh (2016) Comparative study between conventional machining, chemical ultrasonic machining (CUSM) and ultrasonic machining (USM) of plain glass, polycarbonate, acrylic, bullet proof and heat resistant glass. International Conference on Latest Development in Materials, Manufacturing and Quality Control.
31. Haramritpal Singh Sidhu, Pardeep Jindal, Balwinder Singh (2016) Effect of under surface cooling on tensile strength of friction stir processed aluminium alloy 6082. International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering.
32. Khushpinder Pal, Akshay Pathania, Sashank Thapa, Muneesh Sethi (2016) Surface wear investigation using microwave heating and a-tig welding. Recent Trends in Mechanical Engineering.
33. Surinder Singh (2015) Physical work and human capabilities. National Conference on Advanced Manufacturing Trends.

### Co-curricular/Extracurricular Events

- Tarannum 2015, organized on 6<sup>th</sup> and 7<sup>th</sup> October 2015.
- MECHNOCLIQUE-2016
- Fresher Party, 2015



# Department of Textile Engineering



*Linking the world of Textiles to the Technical Era...*

"The Department of Textile Engineering has been playing a significant role in producing technologists of highest caliber ever since its inception in the year 1995. The Undergraduate and Post-graduate programs are offered by the Department to fulfill the ever-growing technical demands in all areas of Textile Engineering. The infrastructure and related facilities are upgraded on a continuous basis to provide adequate opportunities for students and researchers to learn and explore. The department has distinguished faculty, all holding qualifications from renowned institutes of the country and with industrial experience. The department also undertakes many research projects sponsored by both the government and the industry. The teaching and training of students are emphasized by continuous development of syllabi and practical work. Under graduate and post graduate textile engineering students have access to a wide array of subjects including conventional and non-conventional yarn and fabric manufacturing, chemical processing, textile testing and quality control, garment manufacturing, technical textiles and managing production systems."

**GLIMPSE OF THE DEPARTMENT**



*Rapier Weaving Machine*



*Interlock Knitting Machine*



*Ring Frame*



*Circular Knitting Machine*



*Heat Setting Machine*



*High Temperature High Pressure  
Beaker Dyeing Machine*

# DEPARTMENT OF TEXTILE ENGINEERING

FACULTY	
<b>Head</b>	
Dr. Devanand Uttam	Ph.D.
<b>Professors</b>	
Dr. Anupam Kumar	Ph.D.
Dr. Rajeev Kumar Varshney	Ph.D.
<b>Assosiate Professors</b>	
Er. Kalyan Roy	M.Tech.
<b>Assistant Professors</b>	
Er. Parikshit Paul	M.Tech.
Er. Nisha Arora	M.Tech.
Er. Amit Madahar	M.Tech.

MAIN LABORATORIES
Computer Lab
Textile Testing Lab
Textile Chemical Processing Lab
Fabric Manufacturing Lab
Yarn Manufacturing Lab
Knitting Technology Lab
Audio Visual Lab

MAJOR EQUIPMENTS / INSTRUMENTS		
S. No.	Equipment/Instrument	Model/ Make
1.	Ring frame	RX 1240 C
2.	Halogen moisture analyzer	A & D, Japan, MX - 50
3.	Rapier weaving machine	LAXMI Make
4.	Bursting strength tester	Texmark Make
5.	Single needle lock stitch machine	JUKI DDL 8100 CB
6.	Interlock circular knitting machine	STM Make
7.	Single feed plain circular knitting machine	STM Make

## SPECIALIZED FACILITIES

1. Computer Lab: The Department carries a well Furnished Computer lab with wifi facilities which enable the students to use internet whenever they are in need. The students may surf internet and search for the relevant study material.
2. Research and Consultancy facilities are available in the department.
3. Testing & analysis of yarn, fabric and garments for their various properties, like count, twist, drape, pilling, bending, crease recovery and strength measurement, yarn structure, identification of fibres, microscopic analysis, shrinkage of fabric and other parameters of textiles and related products.
4. Research and developments in different industrial, academic problems and troubleshooting areas. Students are assigned development projects at U.G and P.G. levels.
5. Student Society: Textima Club- Some of the activities undertaken by the society is organization of educational trip, expert lectures and cultural activities.

## ACHIEVEMENTS

### Fellowships / Honors / Awards ( Technical)

#### By Students

1. Mr. Sanjay of 2k14 Batch (5th sem) won Gold medal in Cross Country in Inter-College Athletic Meet.

#### By Faculty

1. Life Membership of The Indian Society for Technical Education (ISTE) to Dr. Devanand Uttam, Dr. Anupam Kumar and Dr. Rajeev Kumar Varshney.
2. Life Membership of The Institute of Engineers (India) to Dr. Devanand Uttam, Dr. Anupam Kumar, Dr. Rajeev Kumar Varshney and Prof. Parikshit Paul.
3. Life Membership of Textile Association of India, Mumbai to Prof. Kalyan Roy.
4. Life Membership of Indian Society of Training and Development to Prof. Kalyan Roy.

## Technical Events Organized

### Workshops / Faculty Development Program /Short term courses / Orientation courses / Refresher courses

- One day Symposium on Frontier Areas in Textiles.

### Guest / Expert / Invited Lectures / Talks

- Expert lecture on Structural Properties of Yarn Made by Various Spinning System by Dr. S.K. Sinha, NIT, Jalandhar on 12<sup>th</sup> April 2016.
- Guest lecture on Application of Biotechnology in Textile Processing by Dr. A.K Patra, TIT&S, Bhiwani on 2<sup>nd</sup> Feb. 2016.

### Industrial Visits

- Students of B. Tech. visited M/s. Nitin Industries, Bhilwara to learn Spinning, Weaving and Processing on 16<sup>th</sup> Sep. 2016.
- Students of B. Tech. visited M/s. Calvin Tex Garmenting Industry to analyze the process of Garmenting on 17<sup>th</sup> Sep. 2015 as a part of the industrial/ study tour.
- Students of B. Tech. third Year visited Mayur Suitings Outlet, Sardar Shehar, 19<sup>th</sup> Sep. 2016 as a part of the industrial/ study tour.
- Students of B. Tech. third Year visited M/s Navpada Knitwears, Ludhiana to learn the process of Knitting on 12<sup>th</sup> Mar. 2016.
- Students of B. Tech. final Year visited Sports King, Jeeda, Bathinda to analyze Yarn Manufacturing on 11<sup>th</sup> March 2016.

## Research Publications

1. Devanand Uttam, Rahul Sethi (2016) Impact of repeated washings on Dimensional Stability and fabric physical factors on woven cotton fabric. International Journal of Research in Engineering & Applied Sciences, 6(2): 126-135.
2. Devanand Uttam, Rahul Sethi (2016) Impact of repeated washings on air permeability of woven fabric. International Journal of IT, Engineering and Applied Science Research (i-Explore International Research Journal Consortium), 5(2): 8-11.
3. Devanand Uttam, Rahul Sethi (2016) Impact of repeated washings on the thermal insulation properties of woven cotton fabrics. International Journal of Advanced Research in Engineering and Applied Sciences, 5(3): 1-9.
4. Devanand Uttam, Rahul Sethi (2016) Influence of repeated washings on the moisture vapour permeability of woven cotton fabric. International Journal of Advanced Research in Engineering and Applied Sciences, 5(4): 1-9.
5. Devanand Uttam, Rahul Sethi (2016) The effect of repeated washings on total hand value of cotton fabric. International Journal of Advanced Research in Engineering and Applied Sciences, 5(7): 29-36.
6. Kalyan Roy, Anupreet Kaur (2016) Prediction of shrinkage and fabric weight of cotton single jersey knitted fabric using artificial neural network and comparison with general linear model. International Journal of Information, Research and Review, 03(06): 2541-2544.

## Papers Published in Conferences Proceeding/Presented

### International

1. Rajeev K. Varshney, Amit Madahar (2015) Innovations in textile composite designing and their applications. International Conference on Advancements in Engineering and Technology ICAET-2015, 545-559.
2. Rajeev K. Varshney, Amit Madahar (2015) A review on scientific approach to waste management in International Conference on CSR and Sustainable Development, 47-52.
3. Kalyan Roy, Nisha, Amit Madahar (2016) A review paper on nanotech – a smart area of textile in International Conference on Latest Developments in Materials, Manufacturing and Quality Control.
4. Kalyan Roy, Nisha (2016) Investigation of absorbency and moisture transmission through single jersey knitted fabric in International Conference on Latest Developments in Materials, Manufacturing and Quality Control.

## Seminars/Conferences

### Conferences attended

#### International

1. Devanand Uttam (2016) International Conference on Sustainable Skill Development: Challenges and Future Perspectives, held at NITTTR, Chandigarh.

### Co-curricular/Extracurricular Events

- A Six week Finishing School Program on Apparel and Fashion Technology from 3<sup>rd</sup> Nov. 2016 aiming to the skill development among students and enhancing their employability.
- Career counselling on “Role of Technical Education in Banking Areas” by Mr. Pankaj and Gagan Sharma from Bankers Adda, Bathinda on 18<sup>th</sup> Jan. 2016.
- Tech Fest and Farewell “Vastra Vista” & “Sama- e- Tafreeh” Technical, cultural and farewell function of the final year students on 12<sup>th</sup> Apr. 2016.

# Punjab Institute(s) of Technology



*Committed for Rural Upliftment through Education*

PITs is a dream project of Government of Punjab which are located throughout Punjab on the lines of IIT's in India. Now the PIT's under Malwa Region are taken over by MRSPTU, Bathinda. The main focus of these institutes is to foster quality education in these Regions and to develop the students into excellent human beings as per expectations of industry, who are ready to take future challenges and become a part of growth in the state.

# PUNJAB INSTITUTE(S) OF TECHNOLOGY



*PIT, GTB Garh, Moga*



*PIT, Mansa*



*PIT, Rajpura*



*PIT, Nandgarh*



# PUNJAB INSTITUTE(S) OF TECHNOLOGY

## PHILOSOPHY BEHIND PITs

PITs is a dream project of Government of Punjab and PTU Kapurthala which are located throughout Punjab on the lines of IIT's in India. Now the PIT's under Malwa Region are taken over by MRSPTU, Bathinda. The main focus of these institutes is to foster quality education in these Regions and to develop the students into excellent human beings as per expectations of industry, who are ready to take future challenges and become a part of growth in the state.

## MISSION OF THE PROMOTING BODY

1. To facilitate development of rural youth and to give them an opportunity of Technical Education.
2. To meet the needs of Industry at state and national level.
3. Promotion of Industry institution interaction and establishing linkages with community.
4. Providing affordable education to all.

## OBJECTIVE OF THE INSTITUTES

1. To produce excellent engineer from rural youth who are economically backward.
2. To produce technical graduates of high calibre who will be useful to society.

## PUNJAB INSTITUTE OF TECHNOLOGY, NANDGARH

Punjab Institute of Technology, Nandgarh is a constituent college of Maharaja Ranjit Singh Punjab Technical University, Bathinda. It is the premier institute of Malwa region of the state of Punjab established in 2011 to provide quality education at affordable prices at par with IITs or NITs. It is started with the objectives of imparting quality education and providing a broad platform for students of rural area.

Sprawling campus and dedicated faculty are the unique attributes of PIT Nandgarh. PIT Nandgarh campus is spread over 25 acres of land with a towering three story building, beautifully designed as per the current and future needs. The campus offers a host of hi-tech, ultra modern facilities to ensure good quality and well planned education to students. At present institute is offering 3 undergraduate (B.Com, BBA and BCA) and three postgraduate courses (M.Com, MBA, MCA) keeping in view the educational demands of students of surrounding areas.

PIT Nandgarh emphasizes to correlate theory with practice, for this, industrial visits and timely interaction with successful entrepreneurs and senior executives arranged on regular basis.

## PUNJAB INSITUTE OF TECHNOLOGY, MANSA

PIT, Mansa is one of the institutions developed earlier under the aegis of PTU to promote technical education and employment in rural areas of Punjab, at par with IITs. Now, this Institute is the constituent Institute of Maharaja Ranjit Singh Punjab Technical University, Bathinda. The foundation stone of this Institution was laid on April 9, 2011. PIT, Mansa will be spread over about 54 Acres of Land in district Mansa. For starting the classes of First Year (6-yr B. Tech Integrated Course) from session 2011-12, Punjab Govt. has made available the campus of Nehru Memorial Government Collage, Mansa as the transit campus. The course offered at PIT,

Mansa will provide flexible, modular approach, so that the student will also be allowed to make entry to higher module after gap. Further keeping in view the service to the rural section, the 30% seats are reserved for the economically weaker students hailing from rural area and few seats in Non-Medical discipline are reserved for the students from within the revenue limits of Mansa Kalan (including Mansa city).

### **PUNJAB INSTITUTE OF TECHNOLOGY, RAJPURA**

Punjab Institute of Technology Rajpura is a constituent campus of Maharaja Ranjit Singh Punjab Technical University Bathinda. It is the premier institute of Malwa region of the state of Punjab established in 2011 to provide quality education at affordable prices at par with IITs or NITs. It is started with the objective of imparting quality education and providing a broad platform for students of rural area.

### **PUNJAB INSTITUTE OF TECHNOLOGY, GTB GARH (MOGA)**

Punjab Institute of Technology, GTB Garh (Moga) is a constituent college of Maharaja Ranjit Singh Punjab Technical University, Bathinda. Earlier The Institute was setup by Punjab Technical University, Jalandhar. Very first academic session was started in July 2014. The college made a humble beginning with just 42 students and the courses like B. Tech. (LEET) Mechanical Engineering and B. Tech. (LEET) Electrical Engineering. In 2015, Civil Engineering discipline was added. Today PIT Moga offer courses viz. B. Tech. - 4 Years Civil, Computer Sciences & Engineering, Electrical Engineering & Mechanical Engineering & B. Tech. - 3 Years (LEET) Civil, Electrical & Mechanical. The sprawling campus of PIT, with its lawns and extensive grounds provides a healthy environment for all round development of the generation next. The campus is dotted with an administrative block, library and a science block with well equipped laboratories, together with students' common rooms and staff room.

PIT GTB Garh is only Government technical institute at undergraduate level in Moga Distt.

PIT Moga promotes organization of seminars, lectures, workshops, N.S.S., N.C.C. and other co-curricular activities. A number of scholarships and financial aid are provided to meritorious and needy students every year.

The Career-counselling and Placement Cell of the college provides suitable employment opportunities to graduating students through campus recruitment.

Dedicated facility for use of computers and Internet connectivity has been made available especially for students and teachers in the library as part of the ongoing up gradation of the college infrastructure.



Students  
Activities  
and Support  
Departments

## DEAN (STUDENT WELFARE)

**Dean (Student Welfare):** Prof. (Dr.) R. K. Bansal

Dean (Student Welfare) looks after various student activities of the University. This office provides facilities to the campus students in sports, tour & travel, literary, music & dramatics, creative arts, photography, cultural activities, National Service Scheme (NSS), National Cadets Corps (NCC), hostel accommodation, community living, canteen services and other related student welfare activities. The office of the DSW housed on the first floor of GZSCCET Campus.

Special affords are made by office of the DSW to encourage cultural interest among students. There is a regular calendar for inter-departmental sports and cultural activities and students are also consult for various sports & cultural activities. The University campus students participate in Inter-College Annual Youth Festival of MRSPTU every year. The office also organizes Inter-Departmental Cultural Competition 'TARANNUM' every year.

In order to develop the interest of campus students in sports, facilities for indoor games like Table Tennis, Chess and Carom are provided to the students. Badminton and Volleyball courts are also available. Office of Dean (Students Welfare) annually organizes inter-department competitions in different games. Annual sports meet is also organized and sports persons are honored with cash prizes and mementos. The students from different departments participate in these competitions.

The campus students also take part in inter-college sports competitions/North Zone/All India Inter-University/National and Inter-National Championship. Units of NSS and provision for training under NCC for both boys and girls are also available. Additional, other work(s) delegated by the Higher Authorities related with students welfare or University functions are also accomplished.

## INTERNAL QUALITY ASSURANCE CELL

**Director:** Prof. (Dr.) Jyoti Saxena

In pursuance of the National Assessment and Accreditation Council's (NAAC) action plan for performance evaluation, assessment and accreditation and quality up-gradation of institutions of higher education, an Internal Quality Assurance Cell (IQAC) is established for realization of the goals of quality enhancement and sustenance in MRSPTU, Bathinda.

### Constitution of Internal Quality Assurance Cell, MRSPTU, Bathinda

As per the guidelines of NAAC for the creation of the Internal Quality Assurance Cell (IQAC), the composition of the IQAC is as follows:-

1. Chairperson: Vice-Chancellor
2. Senior administrative officers: 02
3. Professor/Associate Professors: 04
4. Member from the Management: 01
5. Nominees from local society, Students and Alumni: 02
6. Nominees from Employers/Industrialists/stakeholders: 02
7. Member Secretary: Director of IQAC

**Following are the IQAC members vide Notification No. Reg/Notification/51 dt. 10-02-2016 for a period of two years :**

S. No.	Name & Address	Designation
1.	Dr. Mohan Paul Singh Ishar Vice-Chancellor, MRSPTU, Bathinda.	Chairperson
2.	Senior administrative officers (02 no.) (i) Dr. Jasbir Singh Hundal, Campus Director, GZSCCET & Registrar, MRSPTU, Bathinda, (ii) Dr. Gursharan Singh, Director, Punjab Institute of Technology, Nandgarh & Dean Academic Affairs, MRSPTU, Bathinda.	Member  Member
3.	Professor/Associate Professors (04 no.) (i) Dr. A.K. Goel, Head, Department of Electronics & Comm. Engg., GZSCCET & Director, College Development Council, MRSPTU, Bathinda. (ii) Prof. Karanveer Singh, Head, Department of Applied Mathematics, GZSCCET & Controller of Examination, MRSPTU, Bathinda. (iii) Dr. Balraj Singh, Associate Professor, Department of Electronics & Comm. Engg., GZSCCET & Director, Punjab Institute of Technology, Rajpura. (iv) Prof. G.S.Bath, Head, Department of Civil Engg., GZSCCET, Bathinda .	Member  Member  Member  Member

4.	Member from Board of Governors Sh. R.K. Verma, IAS Secretary, Technical Education & Industrial Training, Punjab, Mini Secretariat, Sector 09, Chandigarh.	Member
5.	Nominees from local society, Students and Alumni (02 no.) (i) Prof. D.S. Sidhu Principal, Govt. Polytechnic College, Bathinda. (ii) Ar. Ripudaman Singh Associate Professor, Deptt. of Architecture, GZSCCET, Bathinda.	Member  Member
6.	Nominees from Employers/Industrialists/stakeholders (02 no.) (i) Mr. Pradeep Agarwala MD, JB Industries, Malout Road, Near GNDTP, Bathinda. (ii) Mr. Sunil Prakash Plant Head, Ambuja Cement Plant, Bathinda.	Member  Member
7.	Dr. Jyoti Saxena , Professor, Department of Electronics & Comm. Engg., GZSCCET & Director Internal Quality Assurance Cell, MRSPTU, Bathinda.	Member Secretary (Ex-officio)

## LIBRARY

FACULTY	
<b>Librarian</b>	
Ms. Gurmeet Kaur Mor	M.Sc., M.L.I.Sc.
<b>Chairman of Library Committee</b>	
Prof. Surinder Singh	ME Deptt., GZSCCET
<b>Assistant Librarian</b>	
Sh. Sat Narain	M.A., B.Lib.Sc.
<b>Library Assistant</b>	
Sh. Manjit Singh	M.A., M.L.I.Sc.
Sh. Hans Raj	D.Lib.Sc.
Sh. Rajan Bansal	M.Com., M.Lib.Sc.

The library has a collection of over 45000 Volumes of reference, text books related to engineering and allied subjects. The library amazingly rich collection contains E-resources, Textbooks, BIS codes, VCD, Encyclopedias, Directories, Yearbooks, and Biographical sources and General books including novels.

It is also subscribing for 65+ Technical journals, general magazines. Library subscribes full text online database i.e. IEEE, Elsevier (Science direct), ASCE, ASME and has Pearson e-Books also. The library is a member of DELNET since 2007. Electronic library has 23 systems to access the E-Journals, E-books, CD/DVD's etc. Library & Information Centre provides uncompromising information and intellectual requirements to its students and faculty with a user-friendly approach.

It offers a fully integrated and dynamic environment for conducting academic study. Multiple copies ensure that resources are easily available in Reference Section and Stock Section as well. Library has an independent Reading Hall; The Periodical Section of library is housed in a separate hall which has books especially of Architecture and Textile along with printed journals, News Paper and common magazines. CCTV Surveillance System is also installed in Library.

**Working Hours of the Library:** Monday to Friday; 9 am to 5 pm

**Reading Hall:** Monday to Friday; 8 am to 11 pm (Changes as per demand of students).

Saturday; 9 am to 5 pm.

**Acquisition Section:** New books of Rs 14, 38,649/=are purchased during May 2015 to June 2016. The total numbers of 2126 volumes of books in engineering and allied sciences were purchased.

**Circulation Section:** Issue-return of books is automated. The software E-Granthalaya of NIC New Delhi is used. A total of 12939 books are issued for the period of report.

**Periodical Section:** Hard Copies of 61 National Journals, 11 International, 09 Common Magazines and, 13 News Papers are received in the library.

The library subscribed and provided access to the following online electronic resources to its users during the year 2016.

All of these resources are IP based and are accessible within MRSPTU campus only.

**Online Full-Text Electronic Resources:**

<b>IEEE Explore</b>	
	IEEE- All Society Periodicals (ASPP) (145 e-Journals) (Back files Access – since 2000)
<b>ELSEVIER - SCIENCEDIRECT</b>	
	ELSEVIER - SCIENCEDIRECT (Computer Science & Engineering) 275 Journals (Back files Access from 2000 onwards)
<b>ASCE (American Society of Civil Engineers)</b>	
	ASCE e Journals Package (34 e-Journals) (Back files Access- since 1983,
<b>ASME Journals</b>	
	ASME e Journals Package (25 e-Journals) (Back files Access- since 2000)
<b>ProQuest Engineering</b>	
	Pro-quest Engineering (3757 e- Journals)
<b>SAGE</b>	
	Standard Collection of Online Journals



## DEPARTMENT OF IT ENABLED SERVICES

FACULTY	
<b>Director</b>	
Prof. Sanjay Bhatnagar	M. Phil. (CS)
<b>Programmers</b>	
Mr. Rahul Garg	M. Tech. (CSE)
Mr. Gurtej Singh	M. Tech. (CSE)
Mr. Mandeep Sharma	MCA

The Department of IT Enabled Services was established in year 2015 as a hub for providing the IT related services to the University. The department has significant role in the software development for the University and its constituent & affiliated institutions. It provides varied services to all faculty members, staff and students of University. The different online software applications are designed & developed by this department to facilitate the students as well as employees of the University. This department is equipped with high performance computing facility, training centers, servers, storage and various advanced application software.

IT Enabled Services department serves the University wide 100Mbps fibre optic network that connects all the academic departments, hostels, libraries, building blocks and other central facilities. The department provides Internet facility, open for 24x7 with a high speed and uninterrupted connectivity. The internet is provided through wired LAN Connectivity and Wireless Access Points.

The department provides infrastructural support for conducting various practical classes and examination of the students. It also facilitates the test for placement of students. The department provides support for conducting various online recruitment tests as and when required. It has designed, developed & is maintaining the University and its constituent colleges website.

### ACTIVITIES

- 1) Design, Development & Maintenance of website of the University ([www.mrsptu.ac.in](http://www.mrsptu.ac.in))
- 2) Design, Development & Maintenance of website of the Giani Zail Singh Campus College of Engineering & Technology ([www.gzscampus.org](http://www.gzscampus.org))
- 3) Application software for receiving online applications of candidates for recruitment.
- 4) Application software for receiving online applications of candidates for PhD. Entrance Exam.
- 5) Online recruitment tests for the University and other Institutions.
- 6) Computer Proficiency tests for the recruitment of the University
- 7) Centralized online admission in various courses of the University.

- 8) Promotion of the University on social media i.e. Facebook & Twitter  
(<https://www.facebook.com/officialmrsptu/>, <https://twitter.com/UniversityMRS>).
- 9) Promotion of the University's constituent college Giani Zail Singh Campus College of Engineering & Technology on social media on Facebook (<https://www.facebook.com/gzscct/>).
- 10) Providing help through FAQ for online application submission, Admit Card downloading etc.
- 11) Online tests for placement of the students of the University in the labs of department.
- 12) Training on Android Operating System in collaboration with Google to the employees of the University & its constituent & affiliated institutions.

## ACHIEVEMENTS

- Developed Online Application for College Development Council for receiving applications and giving Affiliation to institutions.
- Developed Application Software for Online Centralized Admission in various courses of the University.
- Developed Online Application software for receiving applications of candidates for Recruitment.
- Developed Online Application software for conducting tests for Promotion of employees of the University and its constituent colleges.
- Developed Online Application software conducting Recruitment tests.
- Developed Online Application for online management of Internal tasks of the University.
- Developed Online Application for Grievance Redressal.

## INNOVATION & BEST PRACTICES

- 1) To motivate staff to work in a team.
- 2) To fulfill all IT Requirements of the University.
- 3) To upgrade Computer laboratories with high end computers and other application software.

## PLANS OF DEPARTMENT FOR NEXT YEAR

- 1) To host the new Online Application Software on a fully secured dedicated server.
- 2) To make the website of the University more interactive.
- 3) To make dynamic website of the University's constituent colleges
- 4) To provide Offline (OMR based) test facility.

## UNIVERSITY PLACEMENT UNIT

**Director (T & P):** Prof. (Dr.) Ashok K. Goel

The placement department of the University caters the needs of the students for their placements in various institutions/organizations- both Govt. and Private having national/international reputation. Since then this office has performed remarkably well both in the matter of placements and providing academic guidance to the students.

**The list of companies that visited for the Campus Placement in the year 2015-16 :**

S. No.	Company Name	No. of Students Placed	Course	Annual Pay Package (Lakhs, INR)
1	Synapseindia, Noida	4	CSE, EE	1.5
2	New Swan Multitech, Ludhiana	20	CSE, ME, EE, ECE	1.5 to 2.0
3	Teamlease, New Delhi	27	MCA, CSE, ECE, EE	3.5
4	SEBI, New Delhi	22	EE, ECE, CSE	3
5	Mitsuba, Gurgaon	6	ME	2.4
6	Signicent, Mohali	5	CSE, EE	2.4 to 5.0
7	JBM Group, Gurgaon	11	CSE, ECE, EE	1.8
8	Anu Industries, Gurgaon	3	ECE	2
9	Telemune Software Solution Pvt.Ltd, New Delhi	11	CSE, ECE, MCA	2.5
10	Clubone-Air, Gurgaon	5	CSE, MCA	3.5
11	Talbro's, Gurgaon	18	ME, EE	3.5 to 5.0
12	Wallmart	33	MBA, MCA, CSE, ECE	2.4
13	IDS, Mohali	4	CSE, ECE	1.5
14	Iron Networks, Mohali	5	MCA, CSE	1.8
15	Shree Ram Pannels	10	ME, EE, ECE	1.8
16	Rise Project, Nodia	4	CSE, MCA	1.2
17	Virgo Marks, Nodia	2	CSE	2.4
18	Plastic Omnium, Gurgaon	2	ME	1.5
19	NIIT, Gurgaon	9	ECE, EE	1.5 to 2.4
20	Suumtronics, Gurgaon	21	ECE, EE	2.0 to 3.0
21	Nestle Ltd.	5	CSE, ME	1.8
22	Mansa Infortech	1	CSE	3.5
23	TSPL	8	ME, EE, ECE	2.0 to 3.0
24	Trident Industries Ltd.	8	TEXTILE	9
25	Catalist One solution	1	CSE	1.8
26	Nahar Group	3	EE	2.2

Sr. No.	Company Name	No. of Students Placed	Course	Annual Pay Package
27	J.C.T. Ltd.	2	ME	2.5
28	Purple Intellect Ptd. Ltd.	1	CSE	1.8
29	The Iron Networks	3	CSE, MCA	1.8
30	BT EASE Fire Ltd	2	ME	1.5 to 2.4
31	Hewlett Packard Enterprises(HPE)	2	CSE	3.6
32	Bitwise Global	1	ECE	3
33	Kellton Tech	1	CSE	3.2
34	Maple Info Systems	1	CSE	2.6
35	SmartData Enterprises	1	CSE	2.4
36	Verka	2	ME	3.6
37	Emson Gears, Ludhiana	10	MCA, CSE, EE	1.8
<b>Total</b>		<b>274</b>		

## YOUTH WELFARE DEPARTMENT

**Director Youth Welfare:** Prof. Bhupinder Pal Singh Dhot

Education is a broad concept that surpasses the four walls of a classroom. The core aim of education is to foster all round development of a child. All round development essentially means intellectual, physical, moral, sensible and social development. To fulfill these objectives, there is a prime need of striking a balance between syllabus, curriculum, books and also co-curricular activities beyond that. The Institute understands the vital role of co-curricular activities in the grooming and development of students and thus gives equal importance to academic and co-curricular activities alike, encouraging them to participate and excel, in whichever co-curricular they like.

**Institute has its full-fledged Youth Welfare Department under the guidance of following :**

<b>Director Sports &amp; Youth Welfare</b>
Ar. Bhupinder Pal Singh Dhot
<b>Members</b>
Dr. Seema Sharma
Dr. Rajesh Gupta
Prof. Jatinder Kaur
Prof. Mukesh Grover
Er. Sukhjinder Singh
Er. Amandeep Kaur Khiva
Er. Manvir Kaur
Er. Sukhdeep Singh

### ACTIVITIES

The first two-day Youth Festival of the Institutions affiliated to Maharaja Ranjit Singh Punjab Technical University (MRSPTU) was inaugurated at Malout Institute of Management and Information Technology (MIMIT) Malout, on 6<sup>th</sup> & 7<sup>th</sup> November, 2015 under the guidance of Prof. Bhupinder Pal Singh Dhot ( Director Sports & Youth Welfare) and Dr. Jaskaran Singh Bhullar, Principal MIMIT, Malout. Sub-divisional magistrate of Malout, Bikramjit Singh Shergill inaugurated the festival as chief guest while officiating station director of Akashwani FM, Bathinda, Sh. Rajiv Arora presided over the function. Hon'ble Vice-chancellor Dr. Mohan Paul Singh Ishar, attended the closing ceremony as a chief guest and distributed the prizes to winners. Dr. J.S. Hundal Registrar of MRSPTU, Bathinda was graced the occasion as a Guest of Honor. Dr. Iqbal Singh Brar and Mr. Mohit Kumar from MIMIT, Malout were Co-ordinator & Co-Coordinator respectively.

Teams from 16 institutions participated in 32 cultural and technical contests. On the inaugural day, 18 competitions including Punjabi Folk Song (Boys), Singing (Light vocal Indian, Classical vocal solo, Classical Inst. Solo (NP), Group Song (Indian, Western Solo and Western Group, Group Song (Shabad/ Bhajan), Punjabi Folk Song, Vaar Singing), Poem Recitation, Creative Writing, Elocution, Punjabi Folk Singing and Rangoli Making, Mehndi, were held at four different stages. Competitions in 14 categories, including Punjabi Folk Song (Girls) & western singing were organized on the second day.

**ACHIEVEMENTS**

GZSCCET, Bathinda bagged First Position in Classical Inst. Solo (NP), Creative Writing (Short Story), On the Spot Painting, Rangoli and stood second in Punjabi Folk Dance (Boys), Poem Recitation, Poster Making and Collage Making.

Baba Banda Singh Bahadur Engineering College, Sri Fatehgarh Sahib achieved First Position in Classical Vocal Solo, Group song Indian, Western Solo, Mimicry, Skit, Mime, One Act Play, Collage Making Elocution, Creative Writing (Essay). They stood second in Classical Inst. Solo (NP), Light Vocal Indian Solo, Group Song (Shabad/Bhajan), Western Group, Quiz and Rangoli.

Malout Institute of Management & Information Technology, Malout, achieved First Position in Light Vocal Indian Solo, Punjabi Folk Song, Vaar Singing, Creative Writing (Poem), Debate, Poem Recitation. They stood second in Classical Vocal Solo, Punjabi Folk Song (Boys /Girls), creative writing (short story), Skit, Mime, One act play and Mehndi.

Baba Farid College of Engineering & Technology, Bathinda, achieved First Position in Group Song (Shabad/Bhajan), Western Group, Punjabi Folk Song (Boys/Girls), Quiz, On The Spot Photography, They stood second in Group Song Indian, Folk Song, Elocution, Mimicry and Clay Modeling.

Bhai Maha Singh College of Engineering, Sri Muktsar Sahib achieved First Position in Poster Making. They stood second in Western Solo, Creative Writing (Poem), On the Spot Painting and Cartooning.

Adesh Institute of Engineering & Technology, Faridkot achieved First Position in Cartooning, Clay Modeling. They stood second in Punjabi Folk Song and On the Spot Photography.

Guru Gobind Singh College of Management & Technology, Giddarbaha achieved First Position in Mehndi. They stood second in Vaar Singing & Debate.

PIT, Nandgarh, stood second in Creative Writing (Essay).

**Baba Banda Singh Bahadur College of Engineering and Technology, Fatehgarh Sahib, won the Overall trophy and by MIMIT, Malout bagged runner's up Trophy.**

## NATIONAL SERVICE SCHEME

**Programme Co-ordinator:** Ar. Ranjit Kaur Johal

The University has set-up its own NSS wing in session 2015. The first Advisory Committee meeting was held on 21-9-2016 in order to discuss and plan the implementation of NSS programs in the University. The University has allotted 60 NSS units to 35 institutes. At present, 2500 volunteers have already been registered with the NSS wing of MRSPTU and rest of the NSS units are in a process of registering themselves. The University constituent college GZSCCET has 7 NSS units, in which 600 volunteers are enrolled. During this short period of its establishment, NSS wing has organized a number of various activities and camps.

## NATIONAL CADET CORPS

**In-charge (NCC):** Lt (Dr.) Rajeev Kumar Varshney

(20 Punjab BN NCC)

He got commission in NCC on 12.09.2013. Since then he has been looking after the NCC unit of 20 Punjab Battalion as Associated NCC Officer in Giani Zail Singh Campus College of Engineering & Technology, Bathinda.

**In-charge (NCC):** Lt (Er.) Vivek Kaundal

(2 Punjab R & V SQN)

He got commission in NCC on 12.03.2016. Since then he has been looking after the NCC unit of 2 Punjab R & V Squadron as Associated NCC Officer in Giani Zail Singh Campus College of Engineering & Technology, Bathinda.

### ACHIEVEMENTS

#### By Students

##### i) 20 Punjab BN

- 28 cadets attended CATC camp held at NCC Academy, Malout (13/10/2015 to 22/10/2015).
- 8 Cadets participated in National Integration Camp held at Bharatpur, Rajasthan (26/10/2015 to 06/11/2015) and were the part of group representing Punjab, Haryana, Himachal and Chandigarh Directorate. They designed and showcased their NIP programme and won All India winner trophy.
- 7 Cadets participated in Basic Leadership Camp sponsored by DG NCC, New Delhi held at NCC Academy Malout, dated (21/01/16 to 30/01/16), where cadets participated in NCC Marathon Run conducted on 24/01/2016.
- CATC camp, Malout (18/06/2016 to 27/06/2016), 7 cadets participated where Cdt. Gaurav Choudhary appointed as BHM SD, Cdt. Manpreet Kaur -Guard of Honour; LCPL Priya Garg & Cdt. Sonali got 1<sup>st</sup> position in cultural event.

##### ii) 2 PB R&V SQN.

- CATC camp, Malout (18/06/2016-22/06/2016) 11 cadets participated where Cd. Sandeep Singh (CSE) & Cd. Sandeep Singh (CE) were member of guard of honour.
- All cadets attended International Day of Yoga on 21/06/2016 at GZCCET & NCC Academy, Malout.

**EVENTS ORGANIZED/ PARTICIPATED**

- Fifteen Cadets participated in District level Independence Day Parade.
- Participated in “Traffic Awareness Drive” on 28<sup>th</sup> Sept. 2015.
- Organized a motivational lecture on “Join Indian Army” in the premises of Giani Zail Singh Campus College of Engineering and Technology, Bathinda on 12<sup>th</sup> Oct. 2015. Major Avneet Kaur and Captain Ankur Srivastava were the main speakers.
- “Start Up India” programme was conducted on 16<sup>th</sup> Jan. 2016. Address by Hon'ble Finance Minister on Television was arranged to be displayed for the students.
- Hosted Bee - Certificate examination of NCC on 07<sup>th</sup> Feb. 2016. 20 Punjab BN NCC, Bathinda was given the responsibility to manage this exam. Lt. Col. Jasbir S. Cheema ; Commanding officer of 3 Punjab Independent COY, NCC Ropar and Lt. Col. M.S. Kang, Admin officer of 14 Punjab BN NCC, Nabha were the presiding officers appointed for this evaluation. 245 cadets (both boys and girls) from various colleges situated in Bathinda, Mansa, Budhladha, Malout and Barnala participated in this exam.
- Organized 2<sup>nd</sup> in series of United Nations International Yoga day on 21<sup>st</sup> June 2016. The arrangements for this event were made by N.C.C wings in association with sports and N.S.S wing of Giani Zail Singh Campus College of Engineering and Technology, Bathinda. Around 500 students from GZSCCET and other neighbouring institutions, faculty, staff and their families participated in this programme of yoga very enthusiastically under the inspiring theme “*Let's join together with love and peace*”.
- ➤ International AIDS day was celebrated on 01<sup>st</sup> Dec. 2016.



## CAMPUS SPORTS

University has its full fledged Sports Deptt under the guidance of following :

<b>Director Sports &amp; Youth Welfare</b>
Ar. Bhupinder Pal Singh Dhot
<b>President Sports</b>
Er. Sikander Singh Sidhu
<b>Asstt. President Sports</b>
Mr. Dilbag Singh
<b>AP Physical Education</b>
Dr. Sukhwinder Singh
<b>D.P.E.</b>
Mrs. Harmanjot Kaur

### “All work and no play make a jack a dull boy”

Each one of us has witnessed the reiteration of the quote throughout our lives. But heavy course books, long studying hours, numerous assignments, exams have camouflaged the importance of games and sports in a student's life. Unfortunately this has led to increased rage and aggression in the youth of today. The University understands the vital role of sports in the grooming and development of students and thus gives equal importance to academic and sports alike, encouraging them to participate and excel, in whichever sports of game they like. May it be cricket, basketball, football, hockey table tennis, badminton, lawn tennis. Well kept courts, training under professional coaches, funds and necessary psychological support are imparted to the budding sportsperson for the betterment of their performance. Our students also have not disappointed us. They have been winning titles from intercollegiate to interuniversity level making the whole institute stand up with pride and appreciation. We hope to continue this legacy see our students shining with the armour of their hard work and determination.

### SPORTS FACILITIES AND INFRASTRUCTURE AVAILABLE AT CAMPUS

Playfields/grounds have already been developed for promotion of sports is as below:

- Athletic track- 400 m grassy athletic track is developed for the players with specifications for all the athletic events.
- Gymnasium hall- equipped with fitness machines, is developed for weight training of players.
- Three standardized basketball courts.
- Two Volleyball courts.
- One cemented lawn tennis court.
- Cricket pitch- one cricket pitch with grassy field is maintained. One cemented pitch for net practice.
- Table Tennis.
- Football ground.
- Hockey ground.
- Badminton court with cemented floor.
- Handball ground.

## INCENTIVES

Sports executive committee of MRSPTU has already been recommended cash prize for colleges. Monetary incentive has given to the first, second & third position holders for overall championships.

## SPORT ACTIVITIES

### i) Participation in Inter-University Competitions

Maharaja Ranjit Singh Punjab Technical University, Bathinda participated in the following inter-university competitions during session 2015-16:

<b>Men Section</b>	<b>Women Section</b>
➤ Table tennis	➤ Table Tennis
➤ Basketball	➤ Athletics
➤ Athletics	➤ Shooting
➤ Handball	
➤ Shooting	

### ii) Inter-College Championships

Maharaja Ranjit Singh Punjab Technical University, Bathinda organized the following inter-college championships:

<b>Men Section</b>	<b>Women Section</b>
➤ Badminton	➤ Badminton
➤ Table Tennis	➤ Table Tennis
➤ Chess	➤ Cross- country
➤ Cross-Country	➤ Basketball
➤ Basketball	➤ Volleyball
➤ Lawn- Tennis	➤ Athletics
➤ Football	➤ Hockey
➤ Handball	
➤ Volleyball	
➤ Cricket	
➤ Athletics	
➤ N/S Kabaddi	
➤ Hockey	

## INTRAMURAL SPORTS ACTIVITIES

For the purpose of mass participation and recreation of students, inter-batch competitions were conducted in various games:

1. Cricket
2. Basketball
3. Volleyball
4. Football

**CAMPUS SPORTS****i) Participation of Students in Inter-University Competitions :**

<b>Game</b>	<b>Men Section</b>	<b>Women Section</b>
Table Tennis	Atul Sharma	Nikita Dolly
Basketball	Jaskarnpreet Singh Sohi Manit Beniwal Gurjot singh Kiran Gurung Robin Singh Bains	-
Athletics	Jaskaranpreet Singh Sohi Mohit Dhiman	Palak Chopra
Handball	Jaskaranpreet Singh Sohi Manit Beniwal Sikander Chanana Davinder Singh Arshdeep Singh Arunveer Kaushal	-
Shooting	Bhupinder Singh Ishaan Dhillon	Ishani Heenu Bansal

**ii) Positions of campus teams in inter-college championships :**

<b>Men Section</b>	<b>Position</b>	<b>Women Section</b>	<b>Position</b>
Badminton	First	Badminton	First
Table Tennis	Second	Table Tennis	First
Cross-Country	First	Cross- country	Third
Basketball	First	Basketball	First
Volleyball	Second	Volleyball	First
Athletics	First	Athletics	Second
Lawn- Tennis	Second		
Footbal	Second		
Handball	First		
Chess	First		
Cricket	First		

## iii) Individual achievements of campus students in inter- college competitions:

Men Section			Women Section		
Participant	Event	Position	Participant	Event	Position
Satyam	200M	Second	Kiranjot Sharma	400M	First
Manit Beniwal	400m	Third	Palak Chopra Sonali	3000M	Second
Vishaldeep Singh	800M	Second	Goyal	3000M	Third
Vishavdeep Singh	1500M	Second	Jaskirndeeep Kaur	100M	Third
Ashuthosh	5000M	Third	Silia Grover	Tripple Jump	First
Shuthosh	10,000M	Third	Navnoor Brar	Tripple Jump	Second
Ravi Prakash Mishra	110MH	First	Palak Chopra	4x400M Relay	Second
Manit Beniwal	400MH	First	Kiranjot Sharma	4x400M Relay	Second
Jaskaranpreet Sohi	400MH	Second	Sonali	4x400M Relay	Second
Satyam	Long Jump	First	Goyal	4x400M Relay	Second
Ramandeep Singh	Shot Put	Third	Satwinder K.		
Gaurav Verma	Hammer Throw	Second	Munjali		
Gurwinder Singh	High Jump	First			
Gurwinder Singh	Tripple Jump	Second			
Sanjeet	Javelin Throw	Third			
Manit Beniwal	4x400M Relay	First			
Jaskaranpreet Sohi	4x400M Relay	First			
Mohd. Tanzeel	4x400M Relay	First			
Gurwinder Singh	4x400M Relay	First			

## STUDENT'S HOSTELS

Each hostel has a state of art cooperative mess, managed by students. All hostels provide accommodation where students of all years and branches of study reside together in perfect harmony in a year-wise hostel system as well as a mixed hostel system.

### BOYS' HOSTELS (5)

- Boys' Hostel No. 01 (1<sup>st</sup> year-three seated)
- Boys' Hostel No. 02 (2<sup>nd</sup> year-three seated)
- Boys' Hostel No. 03 (3<sup>rd</sup> year-cubical)
- Boys' Hostel No. 04 (Final year-cubical)
- Boys' Hostel No. 05 (Mixed hostel system, all years)

### GIRLS' HOSTELS (2)

- Girls' Hostel No. 01 (Mixed hostel system, all years)
- Girls' Hostel No. 02 (Mixed hostel system, all years)

The accommodation offered includes cubical, two-seated, three-seated rooms and all hostels are well-equipped with facilities like medical, laundry, geysers, water coolers with RO system, well furnished common room with facilities like L.E.D. TV, leading newspapers and indoor games like Carom, Chess for the residents. All hostels have lush green lawns and are managed by hostel staff including hostel manager, care taker and mess in-charge available from 09.00 a.m. to 05.00 p.m. on week days as well as warden and assistant warden, who are available 24x7 hours. Good hygienic practices are exercised to make the stay of residents comfortable and to make them to feel at home at all times. Various recreational, cultural, interative & competitive events are organized on the request of residents for the overall development of students.

## UNIVERSITY HEALTH CENTRE

<b>S.M.O</b>	<b>Helper</b>
Dr. HM Garg, M.B.B.S.	Sh. Balwant Singh
<b>Pharmacist</b>	<b>Ambulance Driver</b>
Naresh Kumar, D. Pharmacy	Sh. Chitra Bahadur
<b>Staff Nurse</b>	
Mrs. Gurpreet Kaur, G.N.M.	

### FACILITIES AVAILABLE

- Medical OPD.
- Para Medical staff deputed to sports ground as and when tournaments/cultural functions are organized.
- Most of routine medicines are provided free from the dispensary.
- Ambulance facility is available.
- Medical committees in all hostels are there, who provides medicines (routine medicines) for students under the guidance of medical staff.

### HIGHLIGHTS OF HEALTH CENTER

- Pulse Polio camps are held with the help of district health authorities.
- Medical help provided at the times of blood camps in the campus.
- Health awareness through posters, banners etc.
- Sugar detection camps with the help of Max Hospital, Bathinda was held where about 50 employee have tested.
- Anti-mosquito spray & togging is done in the campus to avoid and prevent mosquito born diseases.
- Medical checkers of Mess workers is conducted annually.
- Medical facilities are free of cost at the University Health Centre.

Medical Aid provided to Students & Staff	Number of Patients (2015-16)
No. of Patients examined & provided medicines	10,000+
No. of Medical examinations done (New admission, New appointments, NSS, NCC etc.)	15,000+

## PUBLIC RELATIONS DEPARTMENT

**Public Relations Officer:** Dr. Manjeet Bansal

The Public Relations Department of Maharaja Ranjit Singh Punjab Technical University, Bathinda, has been making its dedicated and earnest efforts to publicize the policies, unique initiatives, achievements in academics, sports, cultural and other allied fields of the University in print, electronic and social media at the National and Regional levels since its inception. The Department is actively involved in brand building of the University through proper dissemination of related information/news in various media sources.

The Department releases press notes along with photographs in English, Punjabi and Hindi concerning these activities. The Department also arranges Press Conferences on special occasions and issues special write-ups highlighting the achievements of the University from time to time.

In the year 2015-16, the Department had arranged special coverage of State and Regional level Conferences, Workshops, Expert Lectures, Short Term Courses, University level Youth Festivals, Inter-University Sports Championships, Placement, Job Fests, achievements of faculty/students/employee etc. by releasing more than 110 press notes and around 250 photographs of different events.

The publication of Advertisements, Admission Notices, General Notices, Tender Notices etc. regarding the University in various newspapers for information of the public/students are also coordinated by this Department. More than 50 advertisements were published in various newspapers by the Department during this period.

The Department has also been assigned the duty to prepare the University identity cards for staff and students and visiting cards for Head of the departments/officials.

## SECURITY DEPARTMENT

**Security Officer:** Mr. Vivek

**Asst. Security Officer:** Sh. Rajesh Kumar Arora

Security wing was established to meet the security requirements of the Institute. The secured environment plays the important role in the development of an academic Institute especially in education field by creating and maintaining congenial and peaceful environment. The all out efforts were made by the security staff to provide effective security cover as a result the year 2015-16 remained free from any major mis-happening/security violation. However, isolated incidents of petty theft cases and indiscipline were reported. Strict security arrangements were made to prevent internal quarrels amongst the students. The security staff was also made responsive to the call of campus residents and provides every possible help and assistance, as and when required.

During the year 2015-16, apart from routine security duties such as security to vital points, property protection, maintain of Law and order, traffic control, additional special security duties were performed as under:

- Examination- Annual, Semester, Supplementary and various entrance and selection tests.
- Annual and departmental functions, various meetings.
- Visits of various VVIP's and VIP's.
- Religious or Gurudwara Functions.
- Welcome and Farewell parties of the students.
- During admissions.
- Placement drives.
- Job Fairs for the students.
- Sports competitions.
- During NCC and NSS related activities.
- Issue of Passes.
- Parking assistance and securities etc.



## ESTATE DEPARTMENT

The main role of Department is Construction and maintenance of Buildings, Housekeeping, Horticulture, Water Works and Electrical work in the campus, to make the atmosphere conducive for the spread of education, to develop and maintain lawns, to cut waste grass in rainy seasons and to utilize unused land by implanting trees and plants there. The department also looks after lawns around newly created buildings and place important part for arrangements regarding good looks of the campus at time of various functions. The whole staff of Estate department is very hardworking and all of them do their duty very responsibly.

<b>Superintending Engineer</b>
Er. Achhar Singh Mann
<b>Executive Engineer</b>
Er. Tek Singh
<b>Sub Divisional Engineer</b>
Er. Jagdeep Singh Sidhu
<b>Assistant Engineer</b>
Er. Rupinder Singh
<b>Junior Engineer</b>
Er. Rajindervir Singh
<b>Head Drafts Man</b>
Sh. Din Dyal Garg
<b>Carpenter</b>
Sh. Jagtar Singh
<b>Electrician</b>
Sh. Jarnail Singh
Sh. Narinder Singh

<b>Caretaker-cum-cook</b>
Sh. Bansi Lal
<b>Clerk</b>
Sh. Ankush Garg
Sh. Sandeep Singh
<b>Office Attendant</b>
Sh. Sandeep Singh
<b>Mali</b>
Sh. Shiv Parshad
Sh. Krishan Kumar

### CONSTRUCTION OF UNIVERSITY BUILDINGS AS PHASE WISE

#### i) First Phase

1. Administrative Block , comprising of the offices of
  - Vice Chancellor's Secretariat
  - Registrar Secretariat
  - Establishment Branch
  - Accounts Branch
  - Examination Branch
  - Dean R & D
  - Dean Academic Affairs
  - Director College Development
  - Dean Student Welfare
  - Landscape Officer
  - Director Training & Placement
  - Legal, PRO & Vigilance Officer
  - Director Distance Education
  - XEN (Construction & Maintenance Wing)
  - Director Sports & Youth Welfare
2. Vice Chancellor's Residence
3. Central Library
4. Site development as laying of roads, landscaping etc.

5. Construction of gate on Badal road
6. Construction of four Academic Departments
7. Lecture Theatre Complex
8. IT Enabled Centre

An approximate expenditure of Rs 124.03 Crores is likely to be incurred on the construction of above buildings.

#### ii) **Second Phase**

The following buildings can be constructed in the Second Phase:

- Residences for faculty and staff (30 Residences)
- Hostels for Boys and Girls
- Academic Departments
- Guest House
- Research & Development Centre

An approximate expenditure of Rs. 110.01 Crores is likely to be incurred on the construction of above buildings.

#### iii) **Third Phase**

- The following buildings can be constructed in the Third Phase:
- Auditorium for 800 persons
- Gymnasium
- Sports Infrastructure
- Cafeteria
- Residences of faculty and staff (30 Residences)
- Construction of Relocated D-type & C-type Houses

An approximate expenditure of Rs. 35.02 Crores is likely to be incurred on the construction of above buildings.

## BUILDING WORKS COMMITTEE

The building works committee of University shall consist of the following persons namely:

S. No.	Description	Designation
1.	Vice-Chancellor, MRSPTU, Bathinda	Chairman
2.	Registrar, MRSPTU, Bathinda	Member
3.	Finance Officer, MRSPTU, Bathinda	Member
4.	Chief Engineer, Public Works Deptt. (B&R), Provincial Division Punjab or his Nominee (Not below the rank of Superintendent Engineer)	Member
5.	Chief Architect Punjab or his Nominee	Member
6.	One Representative of Punjab Energy Development (PEDA), Punjab	Member
7.	Head, Deptt. of Civil Engg. of the Constituted College/Campus of MRSPTU, Bathinda	Member
8.	Head, Deptt. of Architecture of the Constituted College/Campus of MRSPTU, Bathinda	Member
9.	Executive Engineering, MRSPTU, Bathinda	Member-Secretary

## COMMITTEE AGAINST SEXUAL HARASSMENT (CASH)

### ACTIVITIES

COMMITTEE AGAINST SEXUAL HARASSMENT (CASH) has been constituted in line with the directions of the University Grants Commission for the University and its constituent colleges. The main objectives of CASH are to prevent discrimination and sexual harassment by promoting gender equality among students and employees of the University. It aims to take appropriate remedial measures to respond to any substantiated allegations of sexual harassment and investigate every formal written complaint of sexual harassment.

### OBJECTIVES

- Prevent discrimination and sexual harassment by promoting gender equality among students and employees.
- Investigate every formal written complaint of sexual harassment.
- Take appropriate remedial measures to respond to any substantiated allegations of sexual harassment.
- Discourage and prevent employment-related sexual harassment.

The cell also aims to enhance understanding of issues related to women and to make the institution a safe place for women students.

The Committee Against Sexual Harassment (CASH) consist of the following persons namely:

S. No.	Name	Designation	Contact No.
1.	Dr. Jyoti Saxena	Presiding Officer	8725072489
2.	Prof. Gurprit Singh Bath	Member	8872500268
3.	Dr. Seema Sharma	Member	8872500260
4.	Ar. Jatinder Kaur	Member	8872500287
5.	Dr.Jaskaran Kaur	Member	8872500956
6.	Sh. Tejinder Singh	Member	9417369143
7.	Ms. Baljinder Kaur	Member	9646100419
8.	Ms. Amneet Sidhu	Member	-----
9.	Ms. Swara Arora	Member	-----
10.	Sh. Sukhdeep Singh Bhinder	Member	-----

Any complaint against sexual harassment can be received at Email ID: [cashmrsstu@gmail.com](mailto:cashmrsstu@gmail.com)

## ANTI RAGGING COMMITTEE



'Ragging in all forms is totally banned" in the University Campus and its constituent colleges, all its premises (academic, residential, sports, kiosks, cafeteria and the like) whether located within the campus or outside and in all means of transportation of students whether public or private including affiliated colleges. The Anti-ragging committee has been constituted as per the directions of the Hon'ble Supreme Court.

Any reported incident of ragging in the University Campus after preliminary enquiry shall be dealt with and investigated upon by the committee. It shall submit the report to Dean (Academic Affairs), Maharaja Ranjit Singh Punjab Technical University, Bathinda for further action. The University shall take strict action including but not limited to criminal proceeding and/or cancellation admission against those found guilty of ragging.

## SOCIAL INITIATIVE

Nandgarh, Bajak, Bambiha, Kot Guru and Dhunike are the villages of Bathinda districts are adopted by MRSPTU, Bathinda for their economic and social development.

A team of faculty members from the Civil and Architecture departments of GZSCCET, Bathinda visited at these villages and carried out 'Preliminary Socio- Economic Survey' based on Occupation, Education, Health Infrastructure, Drainage System, Streets and Employment.

# ACTIVITIES AT AFFILIATED COLLEGES



# ACTIVITIES AT AFFILIATED COLLEGES





## MRSPTU IN NEWS

## Teachers' Day celebrated

BATHINDA, SEPTEMBER 6

Giani Zail Singh Campus College of Engineering and Technology, celebrated the Teachers' Day on its campus by paying tributes to Dr S Radhakrishnan on his 125th birth anniversary. The event was organised by the Department of Architecture.

Prof Bhupinder Pal Singh Dhot, head of the department, welcomed the chief guest Dr Mohan Paul Singh Ishar, Vice Chancellor of the Maharaja Ranjit Singh State Technical University, Bathinda and the guest of honour, Dr Surjit Singh Sekha, an eminent educationist, writer and poet.

More than 150 faculty members of the campus from all disciplines attended the event. Dr Ishar highlighted the role of teachers in shaping the young minds. The day was also celebrated at Government Rajindra College by dedi-

cating the NSS camp of girls to their teachers. The camp was conducted by the members of the NSS unit. The camp was conducted under the guidance of Prof Parandeep Kaur and Prof Amla Sharma.

The faculty in-charges of the camp told the students about the importance of the Teachers Day and the teacher-students relationship. They also motivated the NSS volunteers to focus on their studies while also actively participating in extra-curricular activities to give an edge to their personalities.

The management of Baba Farid Group of Institutions announced an increase in the salaries of the teaching staff, which includes scale revisions and salary increments. DBFGI chairman Gurmeet Singh Dhaliwal expressed his happiness and satisfaction on the working of the staff. — TNS

## Birth anniversary of Maharaja Ranjit Singh celebrated

BATHINDA: Maharaja Ranjit Singh State Technical University (MRSSTU), Bathinda, celebrated birth anniversary of Maharaja Ranjit Singh at the university campus. Vice-chancellor of MRSSTU Mohan Paul Singh Ishar paid homage to the great king. He asked the students to take an oath of following the path of secularism shown by Maharaja Ranjit Singh. Ishar said that Maharaja Ranjit Singh was the founder of the Sikh empire. He was the first secular ruler as it allowed people of all religions to rise to commanding positions of authority. He was born to Maha Singh and Raj Kaur on November 13, 1750 at Gujranwala. He was the most popular ruler of Punjab from 1759 to 1849.

BATHINDA Tribune Mon, 0 epaper

## Engineer's Day celebrated

TRIBUNE NEWS SERVICE

BATHINDA, SEPTEMBER 16

Maharaja Ranjit Singh State Technical University celebrated Engineers' day on its Giani Zail Singh Campus College of Engineering and Technology to commemorate the birthday of Bharat Ratna Sir M Visvesvaraya.

The Departments of Electronics and Communication Engineering, Computer Science and Engineering and Computer Applications of the college organised the event. Prof (Dr) Jyoti Saxena, Head of the Department of Electronics and Communication, welcomed all the dignitaries present at the function.

Campus director, Prof (Dr) Jasbir Singh Hundal, briefly introduced Sir Visvesvaraya and his achievements to the students. He said he was called the precursor of economic planning in India. He took an interest

not in engineering alone, but was capable of applying his talent to many allied matters connected with the development of the nation.

The chief guest, Prof (Dr) Mohan Paul Singh Ishar, Vice-Chancellor of Maharaja Ranjit Singh State Technical University, Bathinda elaborated on how engineering is important in every aspect of the world like structural, mechanical, computer engineering and many more.

He also asked students to take pledge that they will uphold the engineering profession by heart and give their best in whatever field they work. He encouraged students with various daily life examples. The event was followed by a workshop on cloud computing conducted by Ranu Mishra and his team, experts from Computer Education and Technology Promotion Association (CETPA), Noida, in

which more than 150 students and faculty members participated.

This workshop included a practical session where the students were taught the development and deployment of an application using cloud computing. In his lecture, he threw light on how cloud computing is a way of providing various services on virtual machines allocated on top of a large physical machine pool which resides in the cloud.

He also explained that cloud computing is a way to increase capacity or add different capabilities to the current setting on the fly without investing in new infrastructure, training new personnel or licensing new software.

National employability test was also conducted by the company so that the candidates could be selected for providing stipend-based industrial training at their company premises in Noida.

## Techno-cultural fest concludes

TRIBUNE NEWS SERVICE

BATHINDA, OCTOBER 8

The 26th two-day annual techno-cultural festival 'Tarranum-2015' concluded at Giani Zail Singh College of Engineering and Technology, PTU Campus.

The fest and fete included various technical events, creative competitions and talent-oriented cultural performances.

Rajinder Mittal, managing director of the Mittal Group of Industries, was the chief guest at the evening cultural function on the first day. Dr MP Singh Ishar, vice-chancellor of Maharaja Ranjit Singh State Technical University, Bathinda, was the chief guest and Anmol Singh Dhaliwal, SDM, was the guest of honour on the second day of the function.

Various batch-wise competitions were held for technical, literary, hobby and cultural events in which nearly 700 students participated enthusiastically. Under the category of technical events, multimedia presentation was won by Rajat Garg, student of seventh-semester electrical engineering, and the team of Nitesh Bansal and Shivam of third semester textile engineering came second.

In the accidental art event, the team of Shilpa and Mehak won the first prize while Simar and Supreet came second. In the electech technical event, Noor Elahi and Aman Kumar bagged the first prize while Ashutosh and Manoj Kumar bagged the second prize. In the full throttle event, Simranjeet and Sahil Sharma bagged the first prize while Pratham Sharma and Parminder Singh bagged the second prize.

In poster presentation, a

technical event, Raushan Rahi and Jasvir Shin bagged the first prize. In folk solo song (boys), Dilpreet won the first prize, Surinder and Nitin bagged the second prize. In the folk solo song (girls), Jashanpreet won the first prize while Tarakjot came second.

In cast-it-fast event, Shiram Verma, Shivam Mishra and Jatinder Kumar bagged the first prize. Himanshu Ahuja, Bhavna Sharma and Iti Madan bagged the second prize. In nail art, a hobby club event, Bhavika and Simran bagged the first prize while Manisha and Harleen bagged the second prize.

In card decoration, a hobby-club event, Arshpreet and Silia bagged the first and second prize, respectively. In mehendi application, a hobby club event, Taginder and Kavita bagged the first prize, Muskan and Arpandeep bagged the second prize. In the dress of newspaper, a hobby club event, Aanchal and Shaivya bagged the first prize while Amneet and Reetu bagged the second prize.

In face painting, a hobby club event, Manu Garg and Vikash Sharma bagged the first prize, Dol-

ly and and Harkamal bagged the second prize. In diya decoration, Kirandeep Kaur bagged the first prize while Rahul Bansal bagged the second prize. In collage making, Silvia bagged the first prize, Mansi bagged the second prize. In kavyanjali, Kulvinder Singh and Bhinder kaur bagged the first and second positions.

In 'siyahi', a literary event, Shubham Pandey and Rohitashva Kumar Singh bagged the first and second prize.

In quiz art, Sandeep and Ravi bagged the first prize. In literary tambola, Jitin Garg bagged the first prize, in group discussion Shubam Singh bagged the first prize, in image perception, Manmeet bagged the first prize, in press conference, Keshav Kumar bagged the first prize and in moment photo, Akaljot came first.

The overall trophy was won by the 2013 and 2014 batch that bagged the second position.

Dr Seema Sharma, chief coordinator of 'Tarannum 2015', thanked the guests present at the concluding ceremony. Dr Jasbir Singh Hundal, campus director, congratulated the organizers and the students for the event.



Students perform during the techno-cultural festival at Giani Zail Singh Campus College of Engineering and Technology in Bathinda. A TRIBUNE PHOTO

BATHINDA Tribune Thu, 17 September 2015 epaper.tribuneindia.com/c/651

BATHINDA Tribune Fri, 09 October 2015 epaper.tribuneindia.com/c/6820













# MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY

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### Non AICTE Courses

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B.Sc. Biotechnology	M.Sc. Biotechnology
B.Sc. Medical Lab Tech.	M.Sc. Medical Lab Tech.
M.Sc. Chemistry	M.Sc. Physics
M.Sc. Mathematics	M.Sc. Env't. Sc.
B.Com. (Hons)	M.Com.
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Bachelor of Tourism & Travel Management	B.Sc. Fashion Design
B.Sc. Fashion Technology	M.Sc. Fashion Technology
B.Sc. Information Technology	M.Sc. Information Technology
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**MBA** : 87250-72461



**PROPOSED  
LAYOUT OF  
MRSPTU**

**Maharaja Ranjit Singh Punjab Technical University, Dabwali Road, Bathinda – 151001**  
**[www.mrsptu.ac.in](http://www.mrsptu.ac.in)**

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