

# **PUNJAB INSTITUTE OF TECHNOLOGY, GTB Garh (Moga)**

## **1) About the Institute:**

Punjab Institute of Technology, GTB Garh (Moga) is a Constituent College of Maharaja Ranjit Singh Punjab Technical University, Bathinda and is the only Government Technical Institution in the District Moga. PIT, GTB Garh is well established Institute of the Malwa Region of Punjab and offers M.Tech, MBA, B.Tech, BBA, BCA, B.Com.(Hons.) & Skill Certified courses (CMPA, Electrician, RAC). The sprawling campus of institute with its lawns and extensive play grounds provides a healthy environment for all round development of the next generation. The campus is dotted with well- equipped laboratories, library, lecture halls and tutorial rooms, common rooms for students, faculty/Staff Cabins spread in 20 acres land. Institute regularly organizes seminars, expert lectures, workshops, extracurricular under N.S.S. unit, sports events and other co-curricular activities for overall development of students. Number of scholarships and financial aids are being provided to meritorious and economically weaker students. Well Qualified and dedicated faculty are the pillars of the institute who are committed for quality education to aspiring students.

## **2) Academic Programmes /Courses offered:**

- i) M. Tech - Electrical Engineering (Intake-18)
- ii) M. Tech - Computer Science & Engineering (Intake-18)
- iii) MBA (Intake-30)
- iv) B. Tech - Computer Science & Engineering (Intake-30)
- v) B. Tech - Electrical Engineering (Intake-30)
- vi) Bachelor of Business Administration (Intake-30)
- vii) Bachelor of Computer Applications (Intake-90)
- viii) Bachelor of Commerce (Hons.) (Intake-30)
- ix) Skill Certificate Course- Electrician (Intake-30)
- x) Skill Certificate Course - Computer Maintenance and Programming Assistant (Intake-30)
- xi) Skill Certificate Course - Refrigeration and Air Conditioning Mechanic (RAC Mechanic) (Intake-30)

### 3) Core Research Areas:

- i) Control Systems
- ii) Power Transformer Diagnostic
- iii) Transformer Insulation
- iv) Free Space optics
- v) Wireless Sensor Networks
- vi) Data Mining
- vii) Expert System
- viii) Surface Engineering
- ix) Bio-Medical Implant
- x) Manufacturing System of Engineering
- xi) Structure Engineering
- xii) Transportation and Highway
- xiii) Digital Image processing
- xiv) Networking

### Faculty / Staff

Name	Designation	Area of Specialization	Contact No. & Email.id
Dr. Amit Kumar Manocha (Director)	Associate Professor	Electrical Measurements, Biomedical Instrumentation, Control Systems	99968-00758 <a href="mailto:akmanochagzscet@gmail.com">akmanochagzscet@gmail.com</a>
Er. Kulbeer Singh	Assistant Professor	Transformer Insulation	8591133337 <a href="mailto:Kulbeerbhullar3@gmail.com">Kulbeerbhullar3@gmail.com</a>
Er. Neha Rani	Assistant Professor	Distribution System	7973403012 <a href="mailto:nsseth501@gmail.com">nsseth501@gmail.com</a>
Er. Shimpy Maheshwari	Assistant Professor	Power Quality, Demand Side Management and Power System Operation and Control	9779893248 <a href="mailto:shimpy_08@yahoo.co.in">shimpy_08@yahoo.co.in</a>
Mr. Mehar Singh	Technical Assistant		9878142983 <a href="mailto:meharjeetsingh679@gmail.com">meharjeetsingh679@gmail.com</a>
Er. Achharpreet Bhalla	Assistant Professor	Digital Image Processing	8728806607 <a href="mailto:achharpreetbhalla@gmail.com">achharpreetbhalla@gmail.com</a>
Er. Gurvir Singh	Assistant Professor	Fuzzy Logic	9851800013 <a href="mailto:gsrakhra1313@gmail.com">gsrakhra1313@gmail.com</a>
Er. Charanjeet Singh	Assistant Professor	Data Mining	9592400430 <a href="mailto:charansheenh77@gmail.com">charansheenh77@gmail.com</a>
Mr. Ramandeep Singh	Assistant Professor	MCA Assistant Professor	9872819407 MCA - 9872819407 <a href="mailto:ramanpitm@mrsptu.ac.in">ramanpitm@mrsptu.ac.in</a>

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Ms.Suman Rani	Assistant Professor	MCA	9780312813	Skatraiapitm@mrsptu.ac.in	
Mr. Sarbjeet Singh	Assistant Professor	MCA	7009368261	rakeshupp44@gmail.com	
Ms. Kamna	Assistant Professor	M.Tech(CSE)	7888357858	singlakamna3@gmail.com	
Ms. Lakashdeep kaur	Assistant Professor	MCA	9877402613	lakashdeepkaur1992@gmail.com	
Mr. Manpreet Singh	Technical Assistant	Diploma(CSE)	9855659826	brarm51@gmail.com	
Er. Varinder Pal Singh	Assistant Professor	B-Tech M-Tech	9877367069	varinderrikka@gmail.com	
Dr. Harpreet Kaur Aulakh	Assistant Professor	Ph.D (Maths), M.Phil, B.Ed	9417728591	harpreet2610@yahoo.com	
Ms. Gurpreet kaur	Assistant Professor	M.Sc (Physics)	8054758928	gurpreetkaur8967@gmail.com	
Ms. Shilpa	Assistant Professor & Department Incharge	MBA, M.Com, (PhD pursuing)	9464680758	shilpa.pitm@mrsptu.ac.in	
Dr. Karamjeet Kaur	Assistant Professor	Phd.	8528716882	karamsran5@gmail.com	
Mr.Gagandeep Singh	Assistant Professor	M.Com	7355734705	gs97khalsa@mrsptu.ac.in	
Ms.Rajwinder kaur	Assistant Professor	M.B.A	6239420194	rajwinbhandari1012@gmail.com	
Ms.Ricky Setia	Assistant Professor	M.B.A	7888611901	rickysetia239@gmail.com	
Ms.Manpreet Kaur	Assistant Professor	M.B.A	6239207199	dhaliwalpreet983@gmail.com	
Ms. Karmjeet Kaur	Assistant Professor	M.B.A	7508793043	pattokamal@gmail.com	
Mr.Subash Bansal	Assistant Registrar	Post Graduation Assistant Registrar	87250-72310	Post Graduation	
Mr. Ramandeep Kumar	Junior Assistant	B.A.	9478639817	ramangarg2411@gmail.com	
Ms. Neetu Jindal	Clerk	M.A. B.Ed.	9814342429	pitneetujindal@gmail.com	
Ms. Iqbal kaur	Library Restorer	M.Lib	8528547253	Kauriqbal816@gmail.com	

#### **4) Specialized Facilities:**

- i) The Computer Science and Engineering Department is providing 24-hour internet facility through Wi-Fi and LAN (16 Mbps 1:1).
- ii) C/C++/Java Language Lab
- iii) Android Lab
- iv) IT Workshop (Science Lab)
- v) Hardware Lab
- vi) Design & Analysis of Algorithms
- vii) Refrigeration and Air Conditioning Lab
- viii) Project Lab in each Department
- ix) Theory of Machine Lab
- x) Structure Analysis Lab
- xi) Power Electronics Lab
- xii) Software lab/Mat Lab
- xiii) Analog circuits Lab
- xiv) Electrical Machine-I Lab
- xv) Electrical machine-II Lab
- xvi) Digital Electronics Lab
- xvii) Power Electronics Lab

**5) Achievements (2018-2019): Fellowships/ Honors / Awards (Technical)**

**a. By Students**

NIL

**b. By Faculty**

i) The Department of Science and Technology (DST) has sanctioned a research project to Dr. Amit Kumar Manocha (Director) of amount 36,23,832/-

ii) Er. Bhupinder Pal Singh and Er. Jarnail Singh of Mechanical Department has published two SCI Journals Publications.

**6) Research Outcomes (2018-2019):**

**i) Technology Transfer**

NIL

**ii) Technology Available**

NIL

**iii) Patents**

NIL

**a. Granted**

NIL

**b. Filed**

NIL

**7) Funded Projects (2018-19):**

**a. Completed:**

NIL

**b. Ongoing:**

NIL

**c. Awarded/ Allocated**

NIL

**8) Publications (2018-19):**

- i) Manocha Amit Kumar, Jain Deepak, Arora Ved Prakash, “Transformer Health Monitoring using Cloud Computing”, *International Journal of Management, Technology and Engineering*, Volume 8, Issue IX, SEPTEMBER/2018, 918-940.
- ii) Singh Bhupinder Pal, Singh Ramandeep, Mehta J.S., Gupta Anjali, Singh Manjeet, Singh Sunpreet, Prakash Chander,” Nano-Mechanical Characterization of Mg-Zn-Mn-Si Alloy Fabricated by Spark Plasma Sintering for Biomedical Applications”, *Materials Today: Proceedings* 5 (2018) 27742-27748.
- iii) Singh Jarnail, Chatha Sukhpal Singh, Singh Hazoor,” Characterization and corrosion behavior of functional Gradient Hydroxyapatite Coating”, *JTST*, 27-8 (2018) 1371-1380.
- iv) Singh Gurcharan, Manocha Amit Kumar, Jindal Vishavdeep,” Total Harmonic Distortion Analysis of Multi Level Inverter using various Pulse Width Modulation Techniques”, *International Journal of Scientific Research and Review*, Volume 07, Issue 03, March 2019,2820-2827.

**9) Books Published by Faculty (2018-19):**

**a. By International Publisher**

NIL

**b. By National Publisher**

NIL

**10) Papers Published in Conferences Proceeding (2018-19):**

**a. International**

- i) Gupta Ankur and Manocha Amit Kumar, “Review of Model Order Reduction Techniques for Reducing an integer order large scale system”, Published in conference proceeding”, *International Conference on Recent Trends in Computer Applications and Information Technology*, MMDU, Mullana, April 19-20, 2019
- ii) Gupta Ankur and Manocha Amit Kumar, “Design of Real Time Grid Monitoring Using Cloud Computing”, *International Conference on Recent Trends in Computer Applications and Information Technology*, MMDU, Mullana, April 19-20, 2019

iii) Manocha Amit Kumar and Gupta Ankur, "A REVIEW OF VARIOUS TECHNIQUES OF MODEL ORDER REDUCTION USED IN THE REDUCTION OF LARGE-SCALE CONTROL SYSTEM" In Recent Advancements in Computer Communication and Computational Sciences.

**b. National**

NIL

**11) Papers presented (Oral/ Poster):**

**a. International**

NIL

**b. National**

NIL

**12) Technical Events Organized (2018-2019):**

**a) Seminars/Conferences organized (2018-2019):**

NIL

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

NIL

**c) Guest/Expert/Invited lectures/ Talks**

- i) Expert lecture by Mr. Sachin Hatta from UltraTech Cement on "Smart Cities" on 5<sup>th</sup> Oct 2018.
- ii) Celebrated Engineers Day by giving Technical Presentations and Technical Quiz on 14<sup>th</sup> Sept 2018.

**d) Industrial Visits**

- i. Students from all Departments visited Bhakra Dam, Nangal on 8<sup>th</sup> Feb 2019.
- ii. Students of B. Tech and BCA visited Web designed suit, Mohali on 22<sup>nd</sup> Feb 2019.

**e) Any Others Information**

## Details of Technical Events Organized (2018-19):

<b>Title:</b>	<b>Smart Cities</b>
<b>Organizer</b>	<b>PIT, GTB Garh</b>
 <p><b>“SMART CITIES” Technical Event</b></p>	<p>On 5th October 2018, an Expert Lecture on 'Smart Cities' was organized by PIT, GTB GARH MOGA. Er. Sachin Hatta, Technical Service Manager and his companion, Er. Sachin Rohilla. Ultratech Cement, Bathinda was speakers of the day. It was a productive lecture.</p>

### 14. New Facilities Created (2018-19):

- i) 200 Mtr Track
- ii) Cricket Ground

### 15. Milestones Achieved (2018-19):

- i. The Punjab Institute of Technology GTB Garh, Moga has secured Overall 3<sup>rd</sup> position in all Sports Category for session 2108-19 in MRSPTU University, Bathinda.
- ii. The College Malwai Gedha Team has won Silver Medal at Inter College Youth held at Desh Bhagat institute engineering and management, Moga on 25<sup>th</sup> Oct 2018 – 26<sup>th</sup> Oct 2018.

### 16. Future Plans (2018-19):

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



**17. Any Four Photographs (With Captions) of the department facilities (2018-19).**

- i. **Accommodation & Transportation:** The campus is having residential facilities for students, faculty and staff. Institute will provide transport facility to the students from the region of 25 Km radius on rate contract.
- ii. **Guest House:** The campus has its own guest house located adjacent to the Academic Block.
- iii. **Library:** College has a very modern, well equipped library which offers wide range of materials and books on various subjects. It is constantly upgraded with latest materials that students and teachers need.
- iv. **Sports:** The Campus has various Sports Grounds for outdoor & indoor sports such as Basketball, Football, Cricket and Volleyball and other indoor Sports facilities such as Badminton etc.
- v. **Medical:** The Campus has First Aid Emergency Facility. Medicines are provided free of cost to students.
- vi. **Students Common Room:** There is a separate common room with good seating arrangement and ambience for the students.



**200 m Track**



**library**



**Cricket Ground**



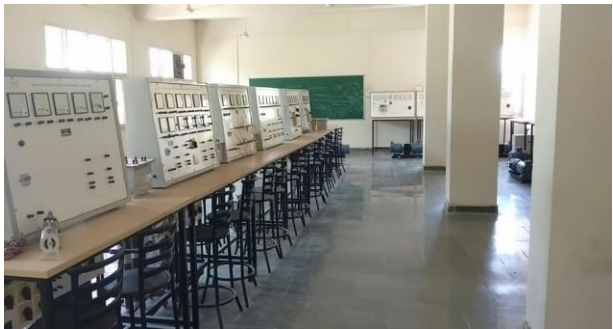
**Discuss Throw Ground**



**Refrigeration and Air Conditioning Lab**



**Concrete Technology Lab**



**Machine Lab**



**Computer Lab**



**Strength of Material Lab**



**Fluid Machinery Lab**



## 18. Photographs related to department activities (2018-19)



**Rakhi competition**



**Tree plantation**



**Engineers day**



**Anti drug abuse seminar**



**Tree plantation**



**Voter awareness camp**



ਪੀ.ਆਈ.ਟੀ ਕਾਲਜ ਗੁਰੂ ਤੇਗ ਬਹਾਦਰਗੜ੍ਹ ਵਿਖੇ  
ਇੱਕ ਰੋਜ਼ਾ ਵਰਕਸ਼ਾਪ ਆਯੋਜਨ ਕੀਤਾ ਗਿਆ

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## NSS Camp



## Drug De-Addiction Rally

- i. **Anti-Ragging Awareness and Orientation Program:** A seminar under NSS activity for “Anti-Ragging Awareness and Orientation Program” new students were held on 01/08/18. The purpose of this seminar is to join hands to make campus Ragging Free and set an example of decent behavior.
- ii. **Best of Waste:** A event on “BEST OF WASTE” under NSS activity was be held on 24/08/18 at 10.00am in our campus. In this event, there was competition among students for making useful things from the waste material easily available in college.
- iii. **Maintenance of Tree:** A camp under NSS activity for “MAINTENANCE OF TREE” was held on 13/09/18 at 10.00am in our campus. NSS Volunteers take part in this event. In these event activities like watering plants, Mulching, Removal of dead and diseased branches were conducted etc.
- iv. **Engineering Day:** Under NSS, “Engineers Day” was celebrated on 15/09/2018. In this event there was various types of competitions like Quiz, Debate, and Presentation among the students.
- v. **Aware of Drug Menace:** A seminar on “Awareness of Drug Menace” under NSS was held on 05/10/18 at 11.00am. The seminar gave the information of symptoms to be observed of different types of drugs and their ill effects. There was an awareness session on drug de-addiction campaign. The presentation was also given on “BUDDY PROGRAM” by Er. Kulbeer Singh.
- vi. **Swachh Bharat Abhiyan:** A program for cleanliness of college campus under “Swachh Bharat Abhiyan” was held from 5-6 March 2019 in our campus.



- vii. **Voter Awareness Campaign:** A camp under NSS activity for “VOTER AWARENESS CAMPAIGN” was held on 21/02/19 at 02.00pm in our campus Dr. Amit Kumar Manocha and Er. Kulbeer Singh guided the students that how they can register themselves as voters.
- viii. **Plantation and Maintenance of Tree:** A camp under NSS activity for “PLANTATION AND MAINTENANCE OF TREE” was held on 25/02/19 at 10.00am in our campus. In this event, the NSS VOLUNTEER planted 100 trees in college campus and maintenance of plants was also done.
- ix. **Workshop on “Life Skill & HIV/AIDS and Awareness of Drug Menace”:** A Workshop on “Life Skill & HIV/AIDS and Awareness of Drug Menace” under NSS was held on 27/03/2019 at 10.00am. This workshop was conducted with Sh. Narinder Kumar (Community AIDS Educator & State Awardee).
- x. **Drug De-addiction Rally:** A “Drug De-Addiction Rally” was organized under NSS in Baghapurana. This rally covered almost all Baghapurana City All faculty members and more than 100 students were present in this rally.

**19. Any other achievement of the from 1<sup>st</sup> July 2017 to 30<sup>th</sup> June 2018**



**Won Bronze Medal in Volleyball  
Tournament**



**Won Bronze Medal in Cricket  
Tournament**



**4<sup>th</sup> Athletics Meet at MRSPTU**



**Won Bronze Medal in Youth Festival**

- i) The College Volleyball Team has won Bronze Medal at inter college Tournament held at MRSPTU, Bathinda on 7<sup>th</sup> Feb 2019- 8<sup>th</sup> Feb 2019.
- ii) The College Cricket Team has won Bronze Medal at Inter College Tournament held at MRSPTU, Bathinda on 13<sup>th</sup> Feb 2019 -19<sup>th</sup> Feb 2019.
- iii) The College Athletic Team has won 01 Silver Medal, 02 Bronze Medals at 4<sup>th</sup> inter college athletic tournament held at MRSPTU, Bathinda on 15<sup>th</sup> March 2019 -16<sup>th</sup> March 2019.
- iv) The College Malwai Gedha Team has won Silver Medal at Inter College Youth held at Desh Bhagat Institute Group of Institution, Moga on 25<sup>th</sup> Oct 2018 – 26<sup>th</sup> Oct 2018.
- v) The Punjab Institute of Technology, GTB Garh, Moga has secured overall 3<sup>rd</sup> position in all Sports Category for session 2108-19 in MRSPTU University, Bathinda.
- vi) The College students have won Silver Medal in Quiz Competition at inter zonal youth festival held at Desh Bhagat institute engineering and management, Moga on 25<sup>th</sup> Oct 2018 – 26<sup>th</sup> Oct 2018.



