Appendix 10
Mandatory Disclosure (Part 2)
(As on 03.07.2024)

PROFILE OF DIRECTOR & EACH FACULTY WITH QUALIFICATIONS, TOTAL EXPERIENCE, AND DURATION OF EMPLOYMENT AT THE INSTITUTE CONCERNED

Profile of Director with qualifications, total experience, and duration of employment

S. No.				
1.	**Name**	**Professor (Dr.) Bhola Ram Gurjar**		
2.	**Designation**	**Director**		
3.	**Date of Joining the institution**	01.03.2023 as Director		
4.	**Educational Qualification**	BE (Civil Engg.), ME (Environmental Engg.), Ph.D. (Environmental Risk Engg.; IIT, New Delhi)		
5.	**Work Experience**	**Teaching**	33 yrs. (including 18 years as **Professor (HAG) in IIT, Roorkee**	
		Industry	2 years in Construction Industry	
		Research	32 yrs. along with teaching; Post-Doctoral Research at Max Planck Institute for Chemistry, Mainz, Germany	
		Others (Administrative)	4 years as Dean of Resources & Alumni Affairs; 2 years as Director, BoDs, IIT, Roorkee Development Foundation; 3 years as Head, CTRANS, IIT Roorkee, etc.	
6.	**Area of Specialization**	Environmental Impact and Risk Assessment, Industrial Hazards and Disasters, Quantitative and Qualitative Risk Analysis, Urban Transport and the Environment, Environmental Sustainability, Energy and Environmental Policy Evaluation, Air and Water Pollution, Emissions and Air Quality, Health Risk Assessment, Urban Climate Change, etc.		
7.	**Subjects teaching at Under Graduate Level and Post Graduate Level**	**At Graduate Level:** Introduction to Civil Engineering; Introduction of Environmental Studies**At Post Graduate Level:** Air Pollution & Control; Sustainable Transportation systems		
8.	**Research Guidance**	**Master's Dissertation**	**31 completed**	
		Ph.D. Dissertation	**15 completed, and 07 in Progress**	
9.	**Research Publications**	**154** (Google Scholar Citations > 4870; h-Index= 31; i10 Index = 77)	**Number of Research Papers**	
			Publication in **National Journals**	**93**
			Publication in **International Journals**	
			Presented in **Conferences/Seminars**	**48**
			Technical Reports/Monographs/Manuals	**13**
10.	**Major Projects Carried out**	**04 Research Projects** (1 sponsored by Max Planck Society, Germany; 1 by IIT, Roorkee; 1 by Japanese Ministry of Education, Culture, Sports, Science & Technology; 1 by United Nations University, Tokyo, Japan) as a Team member/Coordinator)		
11.	**Patents**	**01** (Richa katiyar, BR Gurjar & Vikas Pruthi (Jan, 09/2018). Patent Application no. '20181100174 "Method for Production of Biodiesel from Chlorella SP" duly filed at the Indian Patent Office)		
12.	**Technology Transfer**	-		
13.	**Number of Books Published with Details**	**12 Books + 32 Book Chapters** (in Springer; Elsevier; ASCE, etc.) **+ 3 Book Reviews**	1. **Effective Solutions to Pollution Mitigation for Public Welfare**. IGI Global. Gezerman, Ahmet Ozan, Corbacioglu, Burcu Didem, Gurjar, Bhola R. (Eds.), 2018. 2. **Pollution Exposure to Humans & Its Assessment.** IGI Global; Jat, R., Sahu, V. and Gurjar, B. R. (2018). 3. **Sludge Management**. CRC Press (Taylor & Francis Group); Gurjar, B. R., Vinay K. Tyagi, 2017. 4. **Environmental Science and Engineering** (Series of 12 Vols.), Studium Press LLC, USA; Gurjar, B. R. (Chief Editor), 2017. 5. **Biofuels: Technology, Challenges and Prospects**. Springer. Agarwal, A.K., Agarwal, R.A., Gupta, T., Gurjar, B.R. (Eds.), 2017. 6. **Adapting to Climate Change: Technologiues, Perceptions, Education, and Perspectives.** *In: Climate Change Modeling, Mitigation and Adaptation.* ASCE Publication, Reston, Virginia, USA**;** Ciumasu, I. M., Costica, M., Secu, C. V., Gurjar, B. R. and Ojha, C. S. P. (2013). 7. **Sludge Treatment and Disposal**. CRC Press; Gurjar, B. R. (2001). 8. **Enterprise Support System in India**. Wheeler Publishing, A Div. of AH Wheeler & Co. Ltd., New Delhi; Saini, JS, BR Gurjar, BS Rathore, 2001 9. **Entrepreneurship Opportunities in Info-Tech Industry: An Indo-Global Perspective.** *In: Entrepreneurship and Small Business.* Rawat Publications, Jaipur; Gurjar, B. R. and Mohan, M. (1998).	

S. No.				
1.	**Name**	**Professor (Dr.) Shyam Sundar Pattnaik**		
2.	**Designation**	**Professor Media Engineering**		
3.	**Date of Joining the institution**	26.04.2004 as Professor 18.08.2017 to 28.02.2023 as Director (now on lien w.e.f 26.06.2024 to Odisha State Open University, Sambalpur, Odisha)		
4.	**Educational Qualification**	Ph.D. in Engineering (Elex. & Telecom. Engg.); M.Tech in Electronics & Comm. Engg.; M.Sc. Physics (Electronics spl.);		
5.	**Work Experience**	**Teaching**	31 yrs.	
		Research	03 yrs. (Independent); 33 yrs. along with teaching; **Post-Doctoral Research at University of Utah, USA**	
		Industry	-	
		Others (Administrative)	2 years & 5 months as Vice Chancellor, Biju Patnaik University of Technology, Govt. of Odisha; 5½ years as Director, NITTTR, Chandigarh	
6.	**Area of Specialization**	Antenna Design and Analysis, Bio-Inspired Soft Computing, ICT enabled learning & teaching tools		
7.	**Subjects teaching at Under Graduate Level and Post Graduate Level**	**At Graduate Level**: Antenna & Radar Engineering; Communication Engineering; Microwave Engineering; Electromagnetic theory; TV Engineering; Signals & Systems; Circuits & Devices; Electronics & Materials; Digital Signal Processing; Networks, Filters & Transmission lines; Artificial Neural Networks; **At Post Graduate Level**: Digital Signal Processing; Artificial Neural Networks; Antenna & Radar Engg.; and Digital Image Processing		
8.	**Research Guidance**	**Master's Dissertation**	**57 completed**	
		Ph.D. Dissertation	**24 completed, and 01 in Progress**	
9.	**Research Publications**	**275**	**Number of Research Papers**	
			Publication in **National Journals**	**19**
			Publication in **International Journals**	**90**
			Presented in **Conferences/Seminars**	**152**
			Technical Reports	**14**
10.	**Projects Carried out**	**15** (as a Team member/Coordinator)		
11.	**Patents**	One invention disclosure		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Three Books + Ten Book Chapters**	10. Microwave Metamaterial and Skin Cancer Detection; Pattnaik, SS; Lambert Academic Publishing, 2014. 11. Metamaterial Loaded Antenna for Wireless Communication; Pattnaik, SS; Lambert Academic Publishing, 2014. 12. 3D Printing of Sensors, Actuators and Antennas for Low Cost Product Manufacturing; Pattnaik, SS; CRC Press, 13. Book Chapter (03) in IGI, Global, New York. 14. Book Chapter (01) in Springer, Germany.	

S. No.				
1.	**Name**	**Prof. (Dr.) Suresh K Dhameja**		
2.	**Designation**	Professor, Entrepreneurship Development & Industrial Coordination		
3.	**Date of Joining the institution**	10.11.1988		
4.	**Educational Qualification**	BE, MTech. (Civil Engg.); MBA; Ph.D. (Mgt.)		
5.	**Work Experience**	**Teaching**	**38 years**	
		Research	**34 years along with teaching**	
		Industry	Continuous interaction with industry	
		Others (Administrative)	3 years international experience as Faculty Consultant at Colombo Plan Staff College for Technician Education, Manila, Philippines	
6.	**Area of Specialization**	Entrepreneurship Development; Accreditation; Industry Institute Interaction; Small Business Management; Technical & Vocational Education and Training		
7.	**Subjects teaching at Under Graduate Level and Post Graduate Level**	**At Post Graduate level:** Entrepreneurship Development; Organizational Behaviour, Management & Entrepreneurship		
8.	**Research Guidance**	**Master's Dissertation**	**07 completed** **-**	
		Ph.D. Dissertation	**01 completed** **-**	
9.	**Research Publications**	**130**	**Number of Research Papers**	
			Publication in **National Journals**	**60**
			Publication in **International Journals**	**30**
			Presented in **Conferences/Seminars**	**40**
10.	**Projects Carried out**	Consultancy and Research Projects for NPIU, World Bank, ADBI, UNESCO, UNEVOC, Department of Industries and S&T; APACC International Accreditation		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	Web based teaching and learning system in 20 countries of Asia Pacific Region		
13.	**Number of Books Published with Details**	**Twenty**	1. Environmental Engg. & Management. SK Kataria & Sons Publishers, Delhi, 1999 (author) 2. Environmental Studies. K Kataria & Sons Publishers, Delhi, 2005 (author). 3. Women Entrepreneurs, 'Deep & Deep Publications Pvt. Ltd., New Delhi, 2001 (author) 4. UNESCO-UNEVOC Book on Work, learning & Sustainable Development: Opportunities and Challenges, 'Springer Publishers, 2008 5. CPSC/ADBI Publication on Developing e-learning contents. 6. TVET for the Ageing Society, 'CPSC ISBN:978-971-8557-86-0	

S. No.				
1.	**Name**	**Prof. (Dr.) SS Banwait**		
2.	**Designation**	Professor, Mechanical Engineering		
3.	**Date of Joining the institution**	19.06.1991		
4.	**Educational** Qualification	BE (Mechanical Engg.); M.Tech., Ph.D.		
5.	**Work Experience**	**Teaching**	**35 years**	
		Research	**34 years along with teaching**	
		Industry	**04 years**	
		Others (Administrative)	**15 years along with teaching**	
6.	**Area of Specialization**	Manufacturing Technology		
7.	**Subjects teaching at Under Graduate Level and Post Graduate Level**	**At Postgraduate Level:** CAD/CAM & Robotics, Design for Consumer; Computer Based Production Management		
8.	**Research Guidance**	**Master's Dissertation**	**108 completed** **04 in progress**	
		Ph.D. Dissertation	**08 completed** **02 in progress**	
9.	**Research Publications**	**92**	**Number of Research Papers**	
			Publication in **National Journals**	**05**
			Publication in **International Journals**	**30**
			Presented in **Conferences/Seminars**	**57**
10.	**Projects Carried out**	MODROB Project; Bio-Energy Technology & Business Solution for UK & India		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Three**	1. 'Design & Manufacturing', Birla Publications, Delhi. 2. 'Refrigerant & Psychometric Charts & Tables', Birla Publications, Delhi. 3. ISTE Continuing Education Module on "Engineering Design".	

S. No.				
1.	**Name**	**Prof. (Dr.) AB Gupta**		
2.	**Designation**	Professor & Head, Education and Educationinal Management Department		
3.	**Date of Joining the institution**	03.10.1986		
4.	**Educational Qualification**	B.E. (Mech.) M.E. (Mechanical Engineering), Ph.D.(Mechanical)		
5.	**Work Experience**	**Teaching**	**37 years**	
		Research	**-**	
		Industry	**01 year**	
		Others (Administrative)	**-**	
6.	**Area of Specialization**	Curriculum Development, Manufacturing Technology		
7.	**Subjects teaching at Under Graduate Level and Post Graduate Level**	**At undergraduate Level:** Curriculum Development**;** **At Post Graduate level:** Manufacturing Technology, Curriculum Development		
8.	**Research Guidance**	**Master's Dissertation**	**03 completed** **-**	
		Ph.D. Dissertation	**-** **-**	
9.	**Research Publications**	**36**	**Number of Research Papers**	
			Publication in **National Journals**	**03**
			Publication in **International Journals**	**03**
			Presented in **Conferences/Seminars**	**30**
10.	**Projects Carried out**	Performance of Electrodes on EDM Machine; Flexibility in Industry Need analysis, curriculum development & evaluation Development of MOOC on '**Curriculum Implementation**' and launched on SWAYAM portal from 27.09.2018 to 21.11.2018		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Two**	1. Manufacturing Technology; New Age International Publishers, Delhi. 2. A Practical Handbook for Mechanical Engineers, Galgotia Publishers, Delhi	

S. No.				
1.	**Name**	**Prof. (Dr.) Sanjay Kumar Sharma**		
2.	**Designation**	Professor, Civil Engineering		
3.	**Date of Joining the institution**	13.02.1986		
4.	**Educational Qualification**	ME (Civil Engineering); Ph.D. (Civil Engineering)		
5.	**Work Experience**	**Teaching**	**37 years**	
		Research	**36 years along with teaching**	
		Industry	**01 year**	
		Others (Administrative)	**10 years as HoD, Civil Engg., 02 years as Professor Incharge, CPDC and Centre for Clean Technologies & Sustainable Development**	
6.	**Area of Specialization**	Environmental Engineering, Building Repair, Retrofitting and Rehabilitation, Irrigation & Hydraulics, Public Health Engg., Green Technologies		
7.	**Subjects teaching at Under Graduate Level and Post Graduate Level**	**At Postgraduate Level:** Environmental Engineering, Construction of Hydraulic Structures, Building Maintenance, Green Building & Services, Rural Construction Technology		
8.	**Research Guidance**	**Master's Dissertation**	**80 completed** **10 in progress**	
		Ph.D. Dissertation	**07 completed** **08 in progress**	
9.	**Research Publications**	**125**	**Number of Research Papers**	
			Publication in **National Journals**	**52**
			Publication in **International Journals**	**33**
			Presented in **Conferences/Seminars**	**40**
10.	**Projects Carried out**	**30** Consultancy & Research projects in areas of Repair and Rehabilitation of Structures and Environmental Engineering and Green Technologies		
11.	**Patents**	**01** (Applied for)		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Five**	1. Data Book in Hydraulics. Wiley Easter, New Delhi, 1995. 2. Building Repair and Maintenance Management, CBS Publisher, New Delhi, 2007-08. 3. ISTE manuals on Operation Construction and Maintenance tube wells, Building maintenance (2 nos.) 4. ISTC Manual on Building Defects and Remedial Measures (Part I and Part II). 5. Emerging Trends in Civil Engg.	

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<tr><td>S. No.</td><td></td><td colspan="3"></td></tr>
<tr><td>1.</td><td>Name</td><td colspan="3">Prof. (Dr.) Hemant Sood</td></tr>
<tr><td>2.</td><td>Designation</td><td colspan="3">Professor & Head, Civil Engineering</td></tr>
<tr><td>3.</td><td>Date of Joining the institution</td><td colspan="3">02.12.1988</td></tr>
<tr><td>4.</td><td>Educational Qualification</td><td colspan="3">B.E. (Civil Engineering) Hons., ME (Highways); Ph.D.</td></tr>
<tr><td rowspan="4">5.</td><td rowspan="4">Work Experience</td><td>Teaching</td><td colspan="2">35 years</td></tr>
<tr><td>Research</td><td colspan="2">21 years along with teaching</td></tr>
<tr><td>Industry</td><td colspan="2">1½ years</td></tr>
<tr><td>Others (Administrative)</td><td colspan="2">04 years as HoD, Civil Engineering</td></tr>
<tr><td>6.</td><td>Area of Specialization</td><td colspan="3">Concrete Technology; Pavement Design, Bridge Engg.</td></tr>
<tr><td>7.</td><td>Subjects teaching at Under Graduate Level & Post Graduate Level</td><td colspan="3">At Under Graduate Level: Concrete Technology
At Postgraduate Level: Pavement Design, Bridge Engg., Transportation Engg.</td></tr>
<tr><td rowspan="2">8.</td><td rowspan="2">Research Guidance</td><td>Master's Dissertation</td><td colspan="2">50 completed
10 in progress</td></tr>
<tr><td>Ph.D. Dissertation</td><td colspan="2">02 completed
03 in progress</td></tr>
<tr><td rowspan="4">9.</td><td rowspan="4">Research Publications</td><td rowspan="4">69</td><td colspan="2">Number of Research Papers</td></tr>
<tr><td>Publication in National Journals</td><td>15</td></tr>
<tr><td>Publication in International Journals</td><td>35</td></tr>
<tr><td>Presented in Conferences/Seminars</td><td>19</td></tr>
<tr><td>10.</td><td>Projects Carried out</td><td colspan="3">200 (Consultancy projects)</td></tr>
<tr><td>11.</td><td>Patents</td><td>Nil</td><td colspan="2"></td></tr>
<tr><td>12.</td><td>Technology Transfer</td><td>Nil</td><td colspan="2"></td></tr>
<tr><td>13.</td><td>Number of Books Published with Details</td><td>Fifteen</td><td colspan="2">1. Lab Manual on "Testing of Engg. Materials" by New Age International, New Delhi.
2. Lab. Manual on "Concrete Technology" by CBS Publishers, New Delhi
3. CEP package on "Concrete Mix Design" by ISTE, N.Delhi
4. Module on Design flexible pavement, NITTTR, Chandigarh
5. Module on "Floor, wall and ceiling finishes' NITTTR, Chandigarh
6. Computer Software on "ConMD-2000"- Concrete Mix Design, NITTTR, Chandigarh
7. Computer Software on "Design of Flexible Pavement", NITTTR, Chandigarh
8. Module on "Remote Sensing and its Applications", NITTTR, Chandigarh
9. Module on "Special Concretes" NITTTR, Chandigarh
10. Developed eighteen (18) video films in the subject of Concrete Technology and Pavement Construction, NITTTR, Chandigarh
11. Module on 'High Performance Concrete' published by NITTTR, Chandigarh
12. Reader on 'Bridge Bearings' published by NITTTR, Chandigarh
13. Reader on 'Suspension Bridges' published by NITTTR, Chandigarh
14. Computer Software on 'Concrete Mix Design' by ACI Method
15. Computer Software on ' Design of Flexible Pavement' using Mcleod and Triaxial method</td></tr>
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S. No.					
1.	**Name**	**Prof. (Dr.) BC Choudhary**			
2.	**Designation**	Professor & Head, Applied Sciences			
3.	**Date of Joining the institution**	05.12.1994			
4.	**Educational Qualification**	M.Sc., M. Phil, Ph.D. (Physics)			
5.	**Work Experience**	**Teaching**	**33 years**		
		Research	**32 years along with teaching**		
		Industry	**-**		
		Others (Administrative)	Earlier, Head of Applied Science Department for about 10 years		
6.	**Area of Specialization**	Applied Physics, Nuclear Radiations, Photonics and Nanophotonics			
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Optics; Electricity & Magnetism; **At Postgraduate level:** Optical Fiber Communication, Opto-electronics Instrumentation			
8.	**Research Guidance**	**Master's Dissertation**	**10 completed** **-**		
		Ph.D. Dissertation	**01 completed** **02 in progress**		
9.	**Research Publications**	**101**	**Number of Research Papers**		
			Publication in **National Journals**	**01**	
			Publication in **International Journals**	**40**	
			Presented in **Conferences/Seminars**	**60**	
10.	**Projects Carried out**	**02**			
11.	**Patents**	**Nil**			
12.	**Technology Transfer**	**Nil**			
13.	**Number of Books Published with Details**	**Nil**			

S. No.				
1.	**Name**	**Prof. (Dr.) Rakesh K Wats**		
2.	**Designation**	Professor and Head, Media Engineering		
3.	**Date of Joining the institution**	21.02.1992		
4.	**Educational Qualification**	BE, ME (Civil), Ph.D.		
5.	**Work Experience**	**Teaching**	**35 years**	
		Research	**34 years along with teaching**	
		Industry	**02 years**	
		Others (Administrative)	**15 years (Administrative along with teaching)**	
6.	**Area of Specialization**	Civil Engineering (Hydraulics, Construction Planning & Management), Quality Management, General Management		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Postgraduate level:** Construction Planning & Management, HRD & Training Methods, Research Methodology		
8.	**Research Guidance**	**Master's Dissertation**	**-** **-**	
		Ph.D. Dissertation	**02 in progress**	
9.	**Research Publications**	**43**	**Number of Research Papers**	
			Publication in **National Journals**	**10**
			Publication in **International Journals**	**03**
			Presented in **Conferences/Seminars**	**30**
10.	**Projects Carried out**	42 including testing services **Coordinated** AICTE-NTTT MOOC Module 8: '**Institutional Management & Administrative Procedures**' (15 Video and 6 e-content) launched on SWAYAM Portal from 2nd March to 27th April, 2020		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Three**	1. Continuing Education Modules (AICTE-ISTE, New Delhi Publications); Planning & Managing Continuing Education Programmes in Industry & Training Institutes; 2. Creating Total Quality Culture in Organizations; 3. Benchmarking for Excellence-Guidelines for Indian Organizations	

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<tr><td>S. No.</td><td></td><td colspan="3"></td></tr>
<tr><td>1.</td><td>Name</td><td colspan="3">Prof. (Dr.) Maitreyee Dutta</td></tr>
<tr><td>2.</td><td>Designation</td><td colspan="3">Professor, Information Management & Emerging Engineering Department</td></tr>
<tr><td>3.</td><td>Date of Joining the institution</td><td colspan="3">04.06.2002</td></tr>
<tr><td>4.</td><td>Educational Qualification</td><td colspan="3">ME in Electronics; Ph.D. (Engg. & Tech.)</td></tr>
<tr><td rowspan="4">5.</td><td rowspan="4">Work Experience</td><td>Teaching</td><td colspan="2">26 years</td></tr>
<tr><td>Research</td><td colspan="2">17 years along with teaching</td></tr>
<tr><td>Industry</td><td colspan="2">-</td></tr>
<tr><td>Others (Administrative)</td><td colspan="2">21 years (Administrative along with teaching)</td></tr>
<tr><td>6.</td><td>Area of Specialization</td><td colspan="3">Digital Signal Processing, Advanced Computer Architecture, Data Warehousing and Mining, Digital Image Processing, IoT Security</td></tr>
<tr><td>7.</td><td>Subjects teaching at Under Graduate Level & Post Graduate Level</td><td colspan="3">At Postgraduate level: Digital Signal Processing, Advanced Computer Architecture, Data Warehousing, Software Testing & Quality Management, Business Intelligence & Data Mining, Soft Computing</td></tr>
<tr><td rowspan="2">8.</td><td rowspan="2">Research Guidance</td><td>Master's Dissertation</td><td colspan="2">114 completed
02 in progress</td></tr>
<tr><td>Ph.D. Dissertation</td><td colspan="2">11 completed
04 in progress</td></tr>
<tr><td rowspan="4">9.</td><td rowspan="4">Research Publications</td><td rowspan="4">189</td><td colspan="2">Number of Research Papers</td></tr>
<tr><td>Publication in National Journals</td><td>03</td></tr>
<tr><td>Publication in International Journals</td><td>111</td></tr>
<tr><td>Presented in Conferences/Seminars</td><td>75</td></tr>
<tr><td>10.</td><td>Projects Carried out</td><td colspan="3">08 completed</td></tr>
<tr><td>11.</td><td>Patents</td><td>Nil</td><td colspan="2"></td></tr>
<tr><td>12.</td><td>Technology Transfer</td><td>Nil</td><td colspan="2"></td></tr>
<tr><td>13.</td><td>Number of Books Published with Details</td><td>04</td><td colspan="2">1. Iris Recognition: J. Daugman's Principle. LAP Lambert Academic Publisher; ISBN 978-3330017399.
2. Nimble: An Intergrid for Weather Forecasting. LAP Lambert Academic Publisher; ISBN 978-3659896316.
3. Proceedings of Second International Conference on Communication, Computing & Networks – Lecture Notes on Networks & System (Springer), Vol. 46.
4. Proceedings of International Conference on Internet of Things Inclusive Life – Lecture Notes on Networks & System (Springer), Vol. 116.
5. Books Published: 04
i. Internet of Things for Indoor Air Quality Monitoring Authors: Saini, Jagriti, Dutta, Maitreyee, Goncalo https://www.springer.com/gp/book/9783030822156#aboutBook
ii. Integrating IOT and AI for Indoor Air Quality Assessment. Editors: Jagriti Saini,Maitreyee Dutta, Goncalo Marques, Malka N. Halgamuge. Series: Internet of Things-Technology, Communications and Computing. Springer. https://link.springer.com/book/9783030964856 (SCOPUS Indexed)
iii. Indoor Air Quality Assessment for Smart Environments, Editors: Jagriti Saini, Maitreyee Dutta, Goncalo Marques, Malka N. Halgamuge. Series: Ambient Intelligence and Smart Environments. IOS press, 978-1-64368-276-1
iv. IoT enabled Computer-Aided Systems for Smart Buildings. Eds., Goncalo Marques, Jagriti Saini, Maitreyee Dutta. ISBN: 978-3-031-26685-0, URL: https://link.springer.com/book/10.1007/978-3-031-26685-0</td></tr>
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S. No.				
1.	**Name**	**Prof. (Dr.) SS Dhami**		
2.	**Designation**	Professor, Mechanical Engineering Department and Head ECE Department		
3.	**Date of Joining the institution**	03.08.2004		
4.	**Educational Qualification**	B.E. (Mech. Engg.), M.E. (Mech. Engg.), Ph.D. (Mech. Engg.)		
5.	**Work Experience**	**Teaching**	**32 years**	
		Research	**27 years along with teaching**	
		Industry	**-**	
		Others (Administrative)	04 years as Head, Mechanical Engg., NITTTR, Chd; 09 years as Professor Incharge, Institute Vehicles	
6.	**Area of Specialization**	Mechatronics, Automation, Control System, Modeling and Simulation		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Under Graduate Level:** Servomechanisms & Automatic control, Mechanical Measurements, CAD/CAM, Fundamentals of Computer Programming at PEC University of Technology. Chandigarh; **At Postgraduate level:** Industrial Automation & Control, Industrial Instrumentation, Materials for Manufacturing, Computer Programming & Applications, Artificial Intelligence in Manufacturing, Mechatronics System Design		
8.	**Research Guidance**	**Master's Dissertation**	**60 completed** **10 in progress**	
		Ph.D. Dissertation	**08 completed** **04 in progress**	
9.	**Research Publications**	**68**	**Number of Research Papers**	
			Publication in **National Journals**	**04**
			Publication in **International Journals**	**36**
			Presented in **Conferences/Seminars**	**28**
10.	**Projects Carried out**	• Setting up of Simulation Centre of Excellence funded by ABB, Bengaluru • Setting up of CAD Laboratory under MODROBS (in PEC, Chandigarh)		
11.	**Patents**	Personalised LPG Cylinder Handling System for Domestic Delivery Person Application No.201711004209 A, Filed: 2017-02-06, Published: 2017-02-17 in Official Journal of The Patent Office, Issue No. 07/2017(http://www.ipindia.nic.in/writereaddata/Portal/IPOJournal/1_442_1/Part1.pdf)		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Nil**		

S. No.					
1.	**Name**	**Prof. (Dr.) UN Roy**			
2.	**Designation**	Professor & Head, Rural Development and Education & Educational Management			
3.	**Date of Joining the institution**	19.05.1995			
4.	**Educational Qualification**	B.Sc. (Hons.), M.Sc. (Env. Sc.), PGD (in Rural Dev/Mgt.) & Ph.D. (Rural Dev.)			
5.	**Work Experience**	**Teaching**	**29 years**		
		Research	**29 years along with teaching**		
		Industry	**-**		
		Others (Administrative)	**06 years as HoD, Rural Development**		
6.	**Area of Specialization**	Watershed Management; Organic Farming; Rural Technologies; Sustainable Development and Disaster Management			
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Postgraduate level:** Rural Technologies; Development and Planning, Sustainable Development, Rainwater Harvesting & Watershed Management, Environmental Impact Analysis			
8.	**Research Guidance**	**Master's Dissertation**	**07 completed** **- in progress**		
		Ph.D. Dissertation	**01 completed** **04 in progress**		
9.	**Research Publications**	**115**	**Number of Research Papers**		
			Publication in **National Journals**	**07**	
			Publication in **International Journals**	**04**	
			Presented in **Conferences/Seminars**	**104**	
10.	**Projects Carried out**	**09 Completed** and **02 in progress**			
11.	**Patents**	**Nil**			
12.	**Technology Transfer**	Low Cost Kitchen; Low Cost Toilets; Smokeless Chullah; Waste Water Treatment; Ferrocement Technology			
13.	**Number of Books Published with Details**	**Four**	1. Punia, RD & UN Roy "Appropriate Technology'' 1999, Satya Prakashan, New Delhi 2. Iyer Gopal K & UN Roy "Watershed Management and Sustainable Development", 2005, Kanishka Publishers, New Delhi 3. Roy UN "People Participation in Watershed Management", 2005, Kanishka Publisher, New Delhi. 4. Roy UN & JS Saini People's Empowerment and Sustainable Rural Development, 2009, Rawat Publication, Jaipur 5. Roy, UN and Goyal, Amit "Skills Development and Technologies for Sustainable Rural Development in India" 2020, Abhishek Publications, Chandigarh/New Delhi		

S. No.				
1.	**Name**	**Prof. (Dr.) C Rama Krishna**		
2.	**Designation**	Professor, Computer Science & Engineering Department		
3.	**Date of Joining the institution**	14.10.1996		
4.	**Educational Qualification**	B.Tech. (ECE), M.Tech. (Eltx.), Ph.D. (Engg.)		
5.	**Work Experience**	**Teaching**	**27 years**	
		Research	**27 years along with teaching**	
		Industry	**-**	
		Others (Administrative)	06 years, 9 months as HoD, Department of Computer Science & Engineering; 02 years as Associate Dean; 08 months as Dean (Administration and Finance)	
6.	**Area of Specialization**	Wireless Communications & Networks, Computer Networks, Cloud Computing, Cryptography and Cyber Security, Machine Learning Applications		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Postgraduate level:** Advanced Computer Networks, Network Technologies, Network Security, Wireless Networks		
8.	**Research Guidance**	**Master's Dissertation**	**85 completed** **05 in progress**	
		Ph.D. Dissertation	**12 Awarded** **08 in progress**	
9.	**Research Publications**	**129**	**Number of Research Papers**	
			Publication in **National Journals**	**04**
			Publication in **International Journals**	**35**
			Presented in **Conferences/Seminars**	**90**
10.	**Projects Carried out**	07 completed		
11.	**Patents**	**Patent: 01 Awarded, 03 Published; Copyright: 01 Registered**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**04** (Edited Volumes of Conference Proceedings)	Book Chapter: 11	

S. No.				
1.	**Name**	**Prof. (Dr.) Lini Mathew**		
2.	**Designation**	Professor & Head, Electrical Engineering		
3.	**Date of Joining the institution**	10.11.1988		
4.	**Educational Qualification**	BE (Electrical Engg.); ME (Electrical Engg.), Ph.D. (Electrical Engg.)		
5.	**Work Experience**	**Teaching**	**37 years**	
		Research	**20 years**	
		Industry	**02 years**	
		Others (Administrative)	**09 years as HoD, Electrical Engineering**	
6.	**Area of Specialization**	Electric Power System, FACTS, Power Quality, Soft Computing Techniques, Digital Signal Processing, Measurement, Instrumentation and Data Acquisition, Virtual Instrumentation, Machine Health Monitoring		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate level:** Digital Signal Processing and its Applications; Artificial Neural Networks and Fuzzy Logic; MATLAB Programming; Automation in Industrial Process Control; Instrumentation and Control; Laboratory Practices in Electrical Engineering; Electrical Machines; Electrical Design, Drawing, Estimating and Costing; **At Postgraduate level:** Measurement Sciences; Digital Signal Processing; PC Interfacing and Data Acquisition; Soft Computing Techniques, MATLAB and LabVIEW; Virtual Instrumentation, Smart Grid & Distributed Generation		
8.	**Research Guidance**	**Master's Dissertation**	**141 completed** **14 in progress**	
		Ph.D. Dissertation	**04 awarded** **01 submitted** **01 in progress**	
9.	**Research Publications**	**137**	**Number of Research Papers**	
			Publication in **National Journals**	**04**
			Publication in **International Journals**	**47**
			Presented in **Conferences/Seminars**	**86**
10.	**Projects Carried out**	• Design of Electrical Installation for providing LED lights at various Green Belts/Parks/Parking, Markets etc. for Municipal Corporation, Chandigarh; • Preparation of Educational Video Films for the NTC programme in Electrical Installation & maintenance Work for a Technical School in Nigeria; • Training the Trainers of Technical School in Nigeria in Electrical Installation & maintenance Work during 14 April to 01 May, 2015 at NITTTR, Chandigarh; • Designed and developed the following Instructional material viz., Contactor Control Circuits; Reading and Interpreting Engineering Drawing; A monograph on Units and Dimensions; Installation Trouble-shooting and Preventive Maintenance of Motors, Transformers and Batteries; Signal Processing; Programming in C; MATLAB Programming; Introduction to LabVIEW.		
11.	**Patents**	Nil		
12.	**Technology Transfer**	Nil		
13.	**Number of Books Published with Details**	**One**	Electrical Technology for Engineering Services Examinations, (Co-authored with Dr. S.K. Bhattacharya). TMH Publishing Company, New Delhi	

S. No.				
1.	**Name**	**Prof. (Dr.) Rajesh Mehra**		
2.	**Designation**	Professor and Head, Curriculum Development Department		
3.	**Date of Joining the institution**	15.03.1996		
4.	**Educational Qualification**	B.Tech. (ECE) from NIT, Jalandhar; ME (ECE) and Ph.D. (ECE) from PU, Chandigarh		
5.	**Work Experience**	**Teaching**	**28 years**	
		Research	**16 years along with teaching**	
		Industry	**-**	
		Others (Administrative)	5 years (2 years as Head of ECE Department and 5years as Head of CDC Department), Hostel Warden (Male), Chief Hostel Warden	
6.	**Area of Specialization**	VLSI & Signal Processing, PLC & SCADA, Renewable Energy, Innovative Curriculum Design		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Postgraduate Level:** Advanced DSP, VLSI Design		
8.	**Research Guidance**	**Master's Dissertation**	**110 completed** **15 in progress**	
		Ph.D. Dissertation	**03 in progress** **01 submitted**	
9.	**Research Publications**	**525**	**Number of Research Papers**	
			Publication in **National Journals**	**-**
			Publication in **International Journals**	**424**
			Presented in **Conferences/Seminars**	**101**
10.	**Projects Carried out**	**01**		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**One**	**1)** Book "PLC & SCADA – Theory & Practice", Laxmi Publications, Weblink: https://www.amazon.in/PLCs-SCADA-Practice-Rajesh-Mehra-ebook/dp/B07568SYLK **2)** Book Chapter "Current Perspectives and Advancements of Perovskite Photovoltaic Cells " 2020, DOI: https://doi.org/10.1007/978-981-15-1483-8_8 **3)** Book Chapter "An Extensive Review on Organic Light-Emitting Diode for Energy-Saving and Eco-friendly Technology", 2019, DOI: 10.1007/978-981-13-6772-4_78 **4)** Book Chapter "Automatic magnification independent classification of breast cancer tissue in histological images using deep convolutional neural network" 2019, DOI: 10.1007/978-981-13-3140-4_69 **5)** Book Chapter "Reconfigurable area and speed efficient interpolator using DALUT algorithm" 2011, DOI: 10.1007/978-3-642-17878-8_13 **6)** Book Chapter "FPGA implementation of high speed pulse shaping filter for SDR applications" 2010, DOI: 10.1007/978-3-642-14493-6_23	

S. No.			
1.	**Name**	**Prof. (Dr.) Srinivasa KG**	
2.	**Designation**	Professor, Information Management & Emerging Engineering	
3.	**Date of Joining the institution**	15.03.2019 (now on lien w.e.f 23.03.2022 to IIIT, Naya Raipur)	
4.	**Educational Qualification**	B.E. (Inf. Science & Engg.); M.E. (CSE from UVCE - BU); Ph.D (CSE from BU in 2007); Awarded BOYSCAST Fellowship by DST, GoI, for post-doctoral research work at University of Melbourne, Australia.	
5.	**Work Experience**	**Teaching**: 20 **years** **Research**: 16 years (along with Teaching) **Industry**: - **Others (Administrative)**: 1 year as Dean (Academics) @ CBPGEC, New Delhi 4 years Head of Department @ MSRIT, Bengaluru	
6.	**Area of Specialization**	**Data Mining, Cloud Computing, IoT, Digital Pedagogy**	
7.	**Subjects teaching at Under Graduate Level and Post Graduate Level**	**At Graduate Level**: Microprocessors, Discrete Structures, High Performance Computing, Algorithms, Compiler Design, Automata Theory, GPU Programming; **At Post Graduate Level**: System Simulation, Databases, Advanced Computer Architecture, Soft Computing	
8.	**Research Guidance**	**Master's Dissertation**: **15** **Ph.D. Dissertation**: **5 Completed; 2 Submitted + 2 Ongoing**	
9.	**Research Publications**	**140**	**Number of Research Papers** Publication in **National Journals**: **10** Publication in **International Journals**: **40** Presented in **Conferences/Seminars**: **90** Technical Reports: **-**
10.	**Projects Carried out**	1. **Design and Development of Assistive Internet of Things (IoT) Framework for Physically Challenged People;** Funding Agency: SERC Fast Track Proposals for Young Scientists Scheme, DST; (2013 – 2016); Grant Amount; 24,00,000/- 2. **Empirical Analysis of Public Data Sources to Understand the Development Methodologies of Free and Open Source Software Engineering;** Funding Agency: UGC, New Delhi; (2012 – 2015); Grant Amount; 10,35,800/- 3. **Machine Learning Techniques for Data Mining based Intrusion Detection Systems;** Funding Agency: DRDO, (2010 -2012); Grant Amount: Rs. 14.95 Lakhs 4. **Biomedical Data Mining and DNA Analysis;** Funding Agency: AICTE, New Delhi; Dec. 2005 to Dec. 2008; Grant Amount: Rs. 10.5 Lakhs 5. **CUDA RESEARCH CENTRE;** Funding Agency: nvidia (Ind. Instt. Interaction); 2013; USD 2500 Cash Award for Teaching Associates + Graphics Cards worth Rs. 50,000/-	
11.	**Patents**	**1 Applied**	
12.	**Technology Transfer**	**-**	
13.	**Number of Books Published with Details**	1. Krishnaraj PM, Ankit Mohan, **Srinivasa KG**, "Practical Social Network Analysis with Python", ISBN 978-3-319-96745-5, Series: Computer Communications and Networks, Springer. 2. **Srinivasa KG**, Siddesh GM, Srinidhi H, " Network Data Analytics: A Hands-On Approach for Application Development", Series: Computer Communications and Networks, Springer, ISBN 978-3-319-77800-6, 2018 3. **Srinivasa KG**, Siddesh GM, Hanumantha Raju, "**Internet of Things**", 460 pages, Cengage Learning India Pvt. Ltd. (2018), ISBN: 978-9386858955 4. **Srinivasa, KG,** Ganesh Chandra Deka, and Krishnaraj P.M. "Free and Open Source Software in Modern Data Science and Business Intelligence: Emerging Research and Opportunities." IGI Global, 2018. 1-189. Web. 27 Nov. 2017. ISBN13: 9781522537076 5. **Srinivasa KG,** GM Siddesh, Chetan Shetty and Sowmya B J, **Statistical Programming in R,** Oxford University Press, 2017. 6. **Srinivasa KG,** Anil Kumar Muppalla, **A Guide to High Performance Distributed Computing – Case Studies with Hadoop, Scalding and Spark,** Springer, 2014. 7. Venugopal KR, **Srinivasa KG**, LM Patnaik, ***Soft Computing for Data Mining Applications***, Springer – Studies in Computational Intelligence Series: 190, 2009. 8. Venugopal KR, **Srinivasa KG**, Krishnaraj PM, ***File Structures using C++***, Tata Mcgraw Hill, New Delhi, 2008. 1.1Edited Books 1. **Srinivasa, KG**, Pankaj Lathar, and GM. Siddesh. "The Rise of Fog Computing in the Digital Era." IGI Global, 2019. 1-295. Web. 15 Jul. 2018. doi:10.4018/978-1-5225-6070-8 2. Siddesh G M, Ganesh C Deka, **KG Srinivasa**, LM Patnaik, Cyber Physical Systems- A Computational Perspective, by Chapman and Hall/CRC, ISBN 9781482259759 - CAT# K24201, 2015. 3. Ganesh C Deka, Siddesh GM, **KG Srinivasa**, L M Patnaik, Emerging Research Surrounding Power Consumption and Performance Issues in Utility Computing, Advances in Systems Analysis, Software Engineering, and High Performance Computing (ASASEHPC) Book Series. IGI Global Series Editor: Vijayan Sugumaran (Oakland University, USA), ISSN: 2327-3453, 2015	

S. No.				
1.	**Name**	**Prof. (Dr.) Sandeep Singh Gill**		
2.	**Designation**	Professor and Head, Information Management & Emerging Engineering		
3.	**Date of Joining the institution**	27.03.2019		
4.	**Educational Qualification**	BE (E&EC) (Hons.); M.Tech (ECE), MBA (Marketing/Systems & Control), Ph.D. (ECE)		
5.	**Work Experience**	**Teaching**	26 years	
		Research	06 (along with Teaching)	
		Industry	4 years	
		Others (Administrative)	2 years as Head, ECE Department; First Appellate Authority (RTI)	
6.	**Area of Specialization**	VLSI CAD, Soft Computing Techniques, Engineering Management		
7.	**Subjects teaching at Under Graduate Level and Post Graduate Level**	**At Graduate Level**: Engineering Management, Total Quality Management **At Post Graduate Level**: VLSI Physical Design, Engineering Design & Project Management		
8.	**Research Guidance**	**Master's Dissertation**	**110**	
		Ph.D. Dissertation	**2 (submitted)** **5 (Pursuing)**	
9.	**Research Publications**	**175**	**Number of Research Papers**	
			Publication in **National Journals**	**03**
			Publication in **International Journals**	**56**
			Presented in **Conferences/Seminars**	**113**
			Technical Proceedings	**03**
10.	**Projects Carried out**	**04**		
11.	**Patents**	**01 (Applied For)**		
12.	**Technology Transfer**	**-**		
13.	**Number of Books Published with Details**	**05**	• Carbon Nano Tube-Based Sensor Design for NEMS/ MEMS Applications by Devi, R & Gill, SS (2020). In Raj, B., Khosla, M., & Singh, A. (Ed.), Major Applications of Carbon Nanotube Field-Effect Transistors (CNTFET) (pp. 37-53). IGI Global. http://doi:10.4018/978-1-7998-1393-4.ch003 • Impact of Spacer Engineering on Performance of Junction-less Transistor. Lambert Academic Publishing, ISBN No. 978-613-9-45556-0, 2019. • CMOS SRAM Design and Analysis of Low leakage and High Speed SRAM Cell. Lambert Academic Publishing, ISBN No. 978-3-659-86111-6, 2016. • Contributed Essay on "Marketing in 21st century," in book, "Business Management-Parameters and perspectives,' edited by Dr. Ajay Prasher, Medallion Press, 9788188252152, 2005. • Contributed Chapter on "Management Information Systems (MIS)" in "Handbook of Management", Pragati Prakashan, 2005.	

S. No.				
1.	**Name**	**Prof. (Dr.) Poonam Syal**		
2.	**Designation**	Professor, Department of Electrical Engineering		
3.	**Date of Joining the institution**	11.02.1986		
4.	**Educational Qualification**	BE (Electrical Engg.), ME (Electrical Engg.); Ph.D. (Electrical Engg.)		
5.	**Work Experience**	**Teaching**	**38 years**	
		Research	**04 years** along with Teaching	
		Industry	**-**	
		Others **(Administrative)**	3 years as HoD, Rural Development Department	
6.	**Area of Specialization**	Energy Management, Instrumentation for Environmental Engineering, Renewable Energy Based Technologies, Assistive Technology, Sustainable Development, Clean Technologies, Opto Electronic Instrumentation, Planning and Management for Rural Development, Appropriate Technology, Competency based Training Programme, Social Science Research Techniques, Women Empowerment		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Post Graduate level:** Energy Management, Instrumentation for Environmental Engineering, Research Methodology, Opto Electronic Instrumentation, Technology Transfer for Rural Development, Training for Rural Youth		
8.	**Research Guidance**	**Master's Dissertation**	**18 completed** **05 in progress**	
		Ph.D. Dissertation	**01 completed** **01 in progress**	
9.	**Research Publications**	**94**	**Number of Research Papers**	
			Publication in **National Journals**	**08**
			Publication in **International Journals and Book Chapters**	**21**
			Presented in **Conferences/Seminars**	**65**
10.	**Projects Carried out**	**Nil**		
11.	**Patents**	**One - Patent No. 411091** (Patent application numbered 1739/DEL/2012, "Spatial tactile apparatus and method for creation and navigation of virtual graphics for visually challenged" granted by The Patent Office, New Delhi, Paten Published on 31 August 2016 on 09.11.2022)		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Nil**		

S. No				
1.	Name	**Prof. (Dr.) Rupinder Singh**		
2.	Designation	Professor, Mechanical Engineering		
3.	Date of Joining the institution	31.12.2019		
4.	Educational Qualification	B.Tech (Production Engg.), M.Tech (Production Engg.), Ph.D. (Mechanical Engineering)		
5.	Work Experience	Teaching	24 years	
		Research	19 years along with teaching	
		Industry	0.5 year	
		Others (Administrative	14 years along with teaching (Head, Mechanical Engg., NITTTR; Dean Academics, Dean PG & Research, QIP Co-coordinator, Nodal Officer Academic (TEQIP-II), Member Secretary Academic Council, etc. at GNE Ludhiana	
6.	Area of Specialization	Non-traditional machining, Metal casting, Rapid prototyping/manufacturing, Welding technology and Maintenance engineering		
7.	Subjects teaching at Under Graduate Level & Post Graduate Level	**At Undergraduate Level:** Machine Tool Design; Machine Drawing; Machining Science; Work study and Ergonomics; Non-traditional Machining; **At Postgraduate Level:** Metal Casting; Welding Technology; Diagnostic Maintenance Monitoring; Non-traditional Machining;		
8.	Research Guidance	Master's Dissertation	**99** Completed; **02** in progress	
		Ph.D. Dissertation	**16** Completed; **06** In progress	
9.	Research Publications	Total = **503;** Scopus author ID (55641527000); ORCID identifier	Number of Research Papers	
			Publication in International Journals	314
			Publication in National Journals	28
			Presented in Conferences/Seminars	161
10.	Projects Carried out	18		
11.	Patents	05		
12.	Technology Transfer	02		
13.	Number of Books Published with Details	20	1. 'Investigations for machining characteristics of titanium alloys by USM', 2010, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany; 2. 'Application of cryogenic treatment for machining cost reduction: A case study', 2010, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 3. 'Process capability of rapid manufacturing for plastic components', 2010, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 4. 'Pattern development for hand tool die with fused deposition modeling', 2011, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 5. 'Some investigations for investment casting applications', 2012, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 6. 'Effect of pressure on casting properties in cold chamber die casting', 2012, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 7. 'Effect of some parameters on properties of hot chamber die casting', 2012, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 8. 'Effect of shape factor, slurry layers and temperature in IC', 2012, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 9. 'Plastic component replicas by silicon moulding process', 2012, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 10. 'Maintenance of blast furnace section: A case study of Steel plant', 2012, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 11. 'Maintenance planning and control of boiler section of thermal plant: A case study', 2012, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 12. 'ABS replicas in investment casting applications', 2013, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 13. 'Replication of FDM based patterns via vacuum moulding', 2013, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 14. 'Experimental investigations for development of MMC', 2013, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 15. 'Tribological behaviour of dual and triple particle size Al2O3', 2013, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 16. 'Comparison of investment casting prepared for bio-medical application', 2013, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 17. 'Investigations for casting of Al-SiC metal matrix composite', 2013, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 18. 'Investigations for RCM implementation in thermal power plant', 2016, Lambert Academic Publishing AG & Co. KG, Saarbrücken, Germany (Co-author). 19. 'Additive Manufacturing: Applications and Innovations' Part of the Manufacturing Design & Technology Series (Series Editor: J. Paulo Davim), CRC Press, Taylor & Francis, 2018. 20. 'Bio-Manufacturing', Springer, 2019 (eBook), https://doi.org/10.1007/978-3-030-13951-3, (Co-Editor).	

S. No				
1.	**Name**	**Prof. (Dr.) Pankaj Sharma**		
2.	**Designation**	Professor, Applied Sciences		
3.	**Date of Joining the institution**	21.01.2020		
4.	**Educational Qualification**	M.Sc. (Physics), M.Phil. (Physics), Ph.D. (Physics)		
5.	**Work Experience**	Teaching	16 years	
		Research	15 years along with teaching	
		Industry	-	
		Others (Administrative	[{Head, Applied Science (3 years); Coordinator, Academic Cell (2 years); at NITTTR Chandigarh}, {Co-Chairman, UGC Grievance Cell at JUIT (1.5 Years), IQAC member at JUIT (2Years); at JUIT Waknaghat}] along with teaching.	
6.	**Area of Specialization**	Materials Science and Engineering (Thin Films, Nanomaterials, Electronic Materials, Energy Materials, Polymeric Materials, Glasses, and Ceramics.		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Physics – I & II, Materials Science, Engineering Physics-I, Physics Lab – I & II, Engineering Physics Lab-I, Basic Engineering Physics **At Postgraduate Level:** Sensors & End effectors, Nanoelectronics, Nano Analysis and Characterization Methods, Smart Materials Processing and Applications, Electronic Materials and Devices Lab.		
8.	**Research Guidance**	**Master's Dissertation**	-	
		Ph.D. Dissertation	**07 Completed; 02 In Progress**	
9.	**Research Publications**	**Total = 175** Scopus **Author Id=35746163500**	Number of Research Papers	
			Publication in **International Journals**	158
			Publication in National Journals	
			Presented in Conferences/Seminars	17
10.	**Projects Carried out**	2 (SERB-DST = 01, HIMCOSTE-DST = 01)		
11.	**Patents**	Nil		
12.	**Technology Transfer**	Nil		
13.	**Number of Books Published with Details**	02 Books 14 Chapters	**Books** 1) An Introduction to Hard Ferrites: From Fundamental to Practical Applications, (March, 2023), Publisher: Materials Research Foundations, ISBN: 978-1-64490-230-1; DOI: 10.21741/9781644902318 Co-editor) 2) Engineered Ferrites and Their Applications, (June. 2023), Publisher:Springer, ISBN: 978-981-99-2582-7, DOI: 10.1007/978-981-99-2583-4 (Co-editor) **Book Chapters: 14** (Co-authored)	

S. No				
1.	**Name**	**Prof. (Dr.) Niraj Bala**		
2.	**Designation**	Professor & Head, Entrepreneurship Development & Industrial Coordination		
3.	**Date of Joining** the institution	10.08.2020		
4.	**Educational Qualification**	Ph .D. (Mechanical Engg.); M.E. (Industrial Materials and Metallurgy); BE (Mech. Engg.)		
5.	**Work Experience**	Teaching	26 years	
		Research	07 years (part time)	
		Industry	-	
		Others (Administrative)	Head of Department (MBA) for 1.5 years; Head of Department (Research and Innovation Center) for 5 years	
6.	**Area of Specialization**	Entrepreneurship, Entrepreneurship Development, Patenting, Business Startup, Skill Promotion and Rural Development, Industrial Coordination, Manufacturing processes and Surface Engineering		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level and At Postgraduate Level:** Advanced Material Science, Composite Materials, Applied Thermodynamics, Elements of Mechanical Engineering, Engineering Graphics and Drafting, Theory of Machines, Fluid Mechanics, Thermal Science Engineering, Operations Management, Principles of Engineering Economics and Mgt Technology, Engineering Materials and Metallurgy, Machine Drawing.		
8.	**Research Guidance**	**Master's Dissertation**	**30 Completed** **Nil In Progress**	
		Ph.D. Dissertation	**07 Completed** **02 In Progress**	
9.	**Research Publications**	**Total = 130**	Number of Research Papers	
			Publication in **International Journals** (SCI = 35 and 34 in Non-referred Journals)	69
			Publication in National Journals	01
			Presented in Conferences/Seminars	60
10.	**Projects Carried out**	**3 Projects:** a) "Portable Solar Powered Thermoelectric Refrigerator cum Heater**"** by IEI R&D Cell, Technical Department the Institution of Engineers (INDIA), worth **Rs. 50,000/-**; b) "Design and Development of Magnesium Metal Matrix Composites by Stir Casting Technique" under Research Promotion Scheme (RPS) by AICTE New Delhi, (2013), worth **Rs. 21,90,000**; and c) "Nano-composite Coatings to Control Erosion of Boiler Tubes of Steam Generating Plants" under Fast Track Scheme for Young Scientists by DST, New Delhi, (2013), worth **Rs. 24,85,000/-**		
11.	**Patents**	**01** Granted in 2019 (Erosion Corrosion Resistant Cold Spray Coatings for Boilers Ni-20CRTICRE)		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**02**	1. Elements of Mechanical Engineering. Published by Dhanpat Rai Publishing Company, 2014; ISBN No: 978-93-84559-16-8 (Bala, N., and Singh, A). 2. Engineering Materials and Metallurgy. Published by Dhanpat Rai Publishing Company, 2016; ISBN No: 978-93-5216-134-8 (Bala, N.)	

S. No.				
1.	**Name**	**Ajay K Duggal**		
2.	**Designation**	Associate Professor, Civil Engineering		
3.	**Date of Joining the institution**	02.02.1985		
4.	**Educational Qualification**	B.Sc. Engg (Civil); M.E (Transportation) Ph.D. (pursuing)		
5.	**Work Experience**	**Teaching**	**38 years**	
		Research	**-**	
		Industry	**13 years**	
		Others (Administrative)	**-**	
6.	**Area of Specialization**	Transportation Engineering; Pavement Design and Construction; Foundation Engg.; Environmental Engg.		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Postgraduate level:** Transportation Engineering; Pavement Design and Construction; Foundation Engg.; Environmental Engg., Bridge Engg.; Advanced Construction Technology; Disaster Management		
8.	**Research Guidance**	**Master's Dissertation**	**22 completed** **09 in progress**	
		Ph.D. Dissertation	**-**	
9.	**Research Publications**	**21**	**Number of Research Papers**	
			Publication in **National Journals**	**01**
			Publication in **International Journals**	**15**
			Presented in **Conferences/Seminars**	**05**
10.	**Projects Carried out**	1. Field Investigation for Strengthening & Widening of Existing Corridors (Roads) in the State of Punjab 2. Third party Inspection of various roads of MC Panchkula, HUDA (including Design & Quality Control) 3. Quality Control for construction of 200ft wide road for GMADA (Punjab) 4. Bituminous Mix Design 5. Evaluation of Existing pavements and Design of Overlays 6. 13 Readers 7. 23 Video Films (experimental/field based) 8. 07 charts, 23 OHPs, 01 CAL package		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Four**	1. A Text Books of Engineering Materials (Co-author) 2. Laboratory Manual in Highway Engineering 3. Soil Sampling and Testing 4. Water and Waste Water Analysis	

S. No.				
1.	**Name**	**Parmod Kumar Singla**		
2.	**Designation**	Associate Professor, CDC		
3.	**Date of Joining the institution**	01.08.1985		
4.	**Educational Qualification**	BE Civil Engg., ME Civil (Irrigation & Hydraulics); Ph.D. (pursuing)		
5.	**Work Experience**	**Teaching**	**38 years**	
		Research	**31 years along with teaching**	
		Industry	**-**	
		Others (Administrative)	**06 years as Faculty Incharge, Administration**	
6.	**Area of Specialization**	Civil Engg., Appropriate low cost Technology and Curriculum Development, Communication Skills and Personality Development		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Post Graduate level:** Civil Engg., Appropriate Technology and Curriculum Development		
8.	**Research Guidance**	**Master's Dissertation**	**14 completed**	
		Ph.D. Dissertation	**-**	
9.	**Research Publications**	**82**	**Number of Research Papers**	
			Publication in **National Journals**	**15**
			Publication in **International Journals**	**10**
			Presented in **Conferences/Seminars**	**57**
10.	**Projects Carried out**	About 90 Curriculum Design/review projects, besides many Rural Development & other projects		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	More than 20 technologies		
13.	**Number of Books Published with Details**	**Eight**	1. Curriculum Development for Polytechnics, Chandigarh: NITTTR, 1999 (co-author). 2. English & Communication Skills – 1, Chandigarh: Abhishek Publishers, 2005 (co-author). 3. English & Communication Skills – 2, Chandigarh: Abhishek Publishers, 2005(co-author). 4. Text Book on English & Communication Skills – 1 for Punjab), Chandigarh: Abhishek Publishers, 2012 (co-author). 5. Text Book on English & Communication Skills – 2 for Punjab), Chandigarh: Abhishek Publishers, 2012 (co-author). 6. English and communication skills-3, Chandigarh: Abhishek Publishers, 2008 (co-author). 7. Applied Mechanics, Chandigarh: Abhishek Publishers, 2009 (co-author). 8. Basics of Management, Abhishek Publishers, 2012 (co-author).	

S. No.				
1.	**Name**	**Dr. Suresh Kumar Gupta**		
2.	**Designation**	Associate Professor, Department of Curriculum Development		
3.	**Date of Joining the institution**	01.02.1988		
4.	**Educational Qualification**	B.E. (Civil Engg.); M.E. (Structures); Ph.D. (Engg.)		
5.	**Work Experience**	**Teaching**	**35 years**	
		Research	**30 years along with teaching**	
		Industry	**-**	
		Others (Administrative)	-	
6.	**Area of Specialization**	Civil Engineering; Curriculum Development		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Postgraduate level:** Advanced Structural Analysis; Curriculum Development		
8.	**Research Guidance**	**Master's Dissertation**	**-**	
		Ph.D. Dissertation	**-**	
9.	**Research Publications**	**27**	**Number of Research Papers**	
			Publication in **National Journals**	**15**
			Publication in **International Journals**	**-**
			Presented in **Conferences/Seminars**	**12**
10.	**Projects Carried out**	**92** Nos. Curriculum Design/Revision of Diploma/Certificates Programmes **05** Research Projects		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Two**	1. Curriculum Development for Polytechnics (Co-author); 2. Curriculum Innovations in Technical & Vocational Education. (Co-editor), Chandigarh: Abhishek Publications, 2010	

S. No.				
1.	**Name**	**Mrs. Rama Chhabra**		
2.	**Designation**	Associate Professor, Education & Educational Management		
3.	**Date of Joining the institution**	04.09.1992		
4.	**Educational Qualification**	ME (Chemical Engineering)		
5.	**Work Experience**	**Teaching**	**32 years**	
		Research	**02 year**	
		Industry	**01 year**	
		Others (Administrative)	-	
6.	**Area of Specialization**	Information Management; Curriculum Development		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	-		
8.	**Research Guidance**	**Master's Dissertation**	**01 completed**	
		Ph.D. Dissertation	-	
9.	**Research Publications**	**26**	**Number of Research Papers**	
			Publication in **National Journals**	**04**
			Publication in **International Journals**	**-**
			Presented in **Conferences/Seminars**	**22**
10.	**Projects Carried out**	10 Research Projects; 15 Curriculum Design/Revision Projects		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Nil**	-	

S. No.					
1.	**Name**	**Vinod Kumar Sonthwal**			
2.	**Designation**	Associate Professor, Civil Engineering			
3.	**Date of Joining the institution**	10.05.1995			
4.	**Educational Qualification**	B. Tech. Civil Engg.; M. Tech. (Hons.) in Geotechnical Engg., Ph.D. (thesis submitted)			
5.	**Work Experience**	**Teaching**	**25 years**		
		Research	**09 years**		
		Industry	-		
		Others (Administrative)	-		
6.	**Area of Specialization**	Soil Mechanics and Foundation Engineering			
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Post Graduate level:** Foundation Design and Construction, Construction Equipment, Advanced Construction Technology, Construction Management			
8.	**Research Guidance**	**Master's Dissertation**	**04 completed**		
		Ph.D. Dissertation	-		
9.	**Research Publications**	**03**	**Number of Research Papers**		
			Publication in **National Journals**	**01**	
			Publication in **International Journals**	-	
			Presented in **Conferences/Seminars**	**02**	
10.	**Projects Carried out**	**Package** of Educational video film on Geo-technical Engineering; **Soil Investigation and Bearing Capacity Determination Modules** on 'Computer Based Network Analysis' and 'Auto CAD' **Readers** on 'Shallow Foundations', 'Compaction Equipment', 'Dewatering', 'Earth Dams' and 'Earth Moving Equipment'			
11.	**Patents**	**Nil**			
12.	**Technology Transfer**	**Nil**			
13.	**Number of Books Published with Details**	**Nil**	-		

S. No.				
1.	**Name**	**Sunil D Jassal**		
2.	**Designation**	Associate Professor, Mechanical Engineering		
3.	**Date of Joining the institution**	01.09.1997		
4.	**Educational Qualification**	BE (Mech); ME (Thermal)		
5.	**Work Experience**	**Teaching**	**26 years**	
		Research	**-**	
		Industry	**3½ years**	
		Others (Administrative)	**1 year**	
6.	**Area of Specialization**	Thermal Engg.		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Post Graduate Level:** Tool Engg., Advance Manufacturing Methods, Materials for Manufacturing		
8.	**Research Guidance**	**Master's Dissertation**	**Nil**	
		Ph.D. Dissertation	**Nil**	
9.	**Research Publications**	-	**Number of Research Papers**	
			Publication in **National Journals**	**Nil**
			Publication in **International Journals**	**Nil**
			Presented in **Conferences/Seminars**	**Nil**
10.	**Projects Carried out**	**Nil**		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Nil**		

S. No.				
1.	**Name**	**Dr. (Mrs.) Ritula Thakur**		
2.	**Designation**	Associate Professor, Electrical Engineering		
3.	**Date of Joining the institution**	31.05.2006		
4.	**Educational Qualification**	ME (Electrical), Ph.D. (Electrical Engg.)		
5.	**Work Experience**	**Teaching**	**20 years**	
		Research	**18 years along with teaching**	
		Industry	**-**	
		Others (Administrative)	**-**	
6.	**Area of Specialization**	Power Systems, Electric Drives, Real Time Modeling & Simulation of Power Systems, Power Quality, Micro Grid and Smart Grid, Modeling of DFIG based WECS, Embedded Systems & Microcontrollers, Electrical Engineering & Information Technology in Agriculture, Quality Analysis & Detection Technology in Food Materials, Sensors & Instrumentation, PLC and SCADA		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Basic Electrical Engineering, Generation of Electrical Power, Electrical Engineering Materials, Microprocessors, Electric Drives, Electrical Energy Utilization, FACTS Devices; **At Postgraduate Level:** Measurement Sciences, Industrial Instrumentation, Microprocessors and Microcontrollers, Microcontroller based Embedded Systems, Smart Grid Technologies, IoT based Industrial Automation		
8.	**Research Guidance**	**Master's Dissertation**	**91 completed** **10 in progress**	
		Ph.D. Dissertation	**01 completed** **03 in progress**	
9.	**Research Publications**	**137**	**Number of Research Papers**	
			Publication in **National Journals**	**06**
			Publication in **International Journals**	**92**
			Presented in **Conferences/Seminars**	**51**
10.	**Projects Carried out**	**Nil**		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**01**	Sustainable Energy and Technological Advancements by Springer Nature, Singapore.	

S. No.				
1.	**Name**	**Dr. Balwinder Singh Dhaliwal**		
2.	**Designation**	Associate Professor, Electronics & Communication Engineering		
3.	**Date of Joining the institution**	11.10.2019 as Associate Professor		
4.	**Educational Qualification**	M. Tech. (ECE), Ph.D. (ECE)		
5.	**Work Experience**	**Teaching**	**23 years**	
		Research	**05 years along with teaching**	
		Industry	-	
		Others (Administrative)	5 years as Station Head, Community Radio Station at GNDEC Ludhiana (along with teaching	
6.	**Area of Specialization**	Microstrip Fractal Antenna, Bio-Inspired Computing, Digital Signal Processing, Wearable Antenna		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Digital Signal Processing, Digital Electronics, Microprocessors, Network Analysis and Circuits **At Postgraduate Level:** Advanced Digital Signal Processing, Bio-Inspired Computing, Microstrip Antennas, Information Theory & Coding, Neural Networks & Fuzzy Logic, Computer Networks		
8.	**Research Guidance**	**Master's Dissertation**	**57 completed** **07 in progress**	
		Ph.D. Dissertation	**02 completed** **04 in progress**	
9.	**Research Publications**	**Total = 149**	**Number of Research Papers**	
			Publication in **National Journals**	**02**
			Publication in **International Journals**	**47**
			Presented in **Conferences/Seminars**	**100**
10.	**Projects Carried out**	04 (as a Team member/Coordinator)		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**05**	1. **Digital Electronics** by Balwinder Singh Dhaliwal and M. S. Malhi. Kalyani Publishers, 2007, Ludhiana, India. ISBN No. 978-81-272-4759-1 2. **Basic Electronics Engineering and Information Technology** by Balwinder Singh Dhaliwal, J. Kaur and G. Kumar. Kalyani Publishers, 2012, Ludhiana, India. ISBN No. 978-93-272-1886-2. 3. **Deploying Sensor Nodes using Bacterial Foraging Optimization: Network Layout Methodology** by G. Singh and Balwinder Singh Dhaliwal. LAP LAMBERT Academic Publishing, Germany, 2012. ISBN No. 978-38-484-3261-5. 4. **Digital Electronics** by Balwinder Singh Dhaliwal and S. K. Josan. Kalyani Publishers, Ludhiana, India, 2012. ISBN No. 978-93-272-2880-9. 5. **Design, Optimization of FIR Filter Using Hybrid SIMBO-GA Algorithm** by Parampal Singh, and Balwinder Singh Dhaliwal. LAP LAMBERT Academic Publishing, Germany, 2017. ISBN No. 978-3-659-80234-8	

S. No				
1.	**Name**	**Dr. Meenakshi Sood**		
2.	**Designation**	Associate Professor, Curriculum Development Department		
3.	**Date of Joining the institution**	25.10.2019 as Associate Professor		
4.	**Educational Qualification**	M. Tech. (ECE), Ph.D. (ECE)		
5.	**Work Experience**	**Teaching**	25 years	
		Research	13 years along with teaching	
		Industry	-	
		Others (Administrative)	02 years as Department Coordinator and 1 year as Deputy COE, at JUIT, Solan, H.P.	
6.	**Area of Specialization**	Bio-Medical Signal Processing, Bio-Inspired Computing, Image Processing, Antenna Design		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Data Communication, Antenna Theory and Wave propagation, Image Processing Techniques, Digital Electronics, Electronic Devices and Circuits **At Postgraduate Level:** Soft Computing Techniques, Computational Intelligence, Medical Signal Processing, Antenna Theory and Techniques		
8.	**Research Guidance**	**Master's Dissertation**	**08 Completed** **03 in progress**	
		Ph.D. Dissertation	**04 Completed** **01 in progress**	
9.	**Research Publications**	**Total = 135**	**Number of Research Papers**	
			Publication in **National Journals**	**06**
			Publication in **International Journals**	**65**
			Presented in **Conferences/Seminars**	**64**
10.	**Projects Carried out**	02 (Govt. of Himachal Pradesh) a) Identification of Commercial Crop Diseases using Image Processing Techniques & its Environmental effects for the farmers of HP with feedback System using IOT and android Application with Deptt. Of Environment, Science & Technology, Govt. of HP; 2018-20 for Rs. 9,96,750/- b) Design & Analysis of a Thermoelectric Generator for Energy Harvesting System from Waste Heat for the State of HP under HP Specific Research & Development Process; 2017-19; (SCSTE, HP) Rs. 5.24 lakhs		
11.	**Patents**	**03**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**03** **02**	1. Advances in Computational Intelligence Techniques- Algorithms for Intelligent Systems. (Shruti Jain, **Meenakshi Sood**, Sudip Paul), Springer ISBN : 978-981-15-2619- 2. Signal Processing, Computing and Control. **Meenakshi Sood**, Shruti Jain, ISBN 978-1-5090-5837-2 3. Signal Processing, Computing and Control. Shruti Jain, **Meenakshi Sood.** ISBN 4. Two Study Material on Digital Electronics for ICDOEL HP University	

<table>
<tr><td>S. No</td><td></td><td colspan="2"></td><td rowspan="2">  </td></tr>
<tr><td>1.</td><td>Name</td><td colspan="2">Dr. Ashok Kumar</td></tr>
<tr><td>2.</td><td>Designation</td><td colspan="3">Associate Professor, Applied Science</td></tr>
<tr><td>3.</td><td>Date of Joining the institution</td><td colspan="3">19.11.2019 as Associate Professor</td></tr>
<tr><td>4.</td><td>Educational Qualification</td><td colspan="3">M.Sc. (Physics); Ph.D. (Material Science)</td></tr>
<tr><td rowspan="4">5.</td><td rowspan="4">Work Experience</td><td>Teaching</td><td colspan="2">11 years (after Ph.D.)</td></tr>
<tr><td>Research</td><td colspan="2">13 years (after Ph.D.)</td></tr>
<tr><td>Industry</td><td colspan="2">----</td></tr>
<tr><td>Others (Administrative)</td><td colspan="2">Duties performed before joining NITTTR Chandigarh - Professor In-charge Innovation Club (NIT Kurukshetra), Nodal officer - Rashtriya Avishkar Abhiyan (RAA-MHRD) (NIT Kurukshetra); Warden, Boys Hostel, NITTTR, Chandigarh</td></tr>
<tr><td>6.</td><td>Area of Specialization</td><td colspan="3">Nanotechnology enabled energy harvesting and storage materials/ devices, Indian Knowledge System</td></tr>
<tr><td>7.</td><td>Subjects teaching at Under Graduate Level & Post Graduate Level</td><td colspan="3">At Undergraduate Level: Physics-I & II; Physics Lab-I; Physics Lab-II
At Postgraduate Level: Foundations of Nanoscience and Nanotechnology; Nanoscale Magnetic Materials and Devices; Synthesis of Nanomaterials; High Vacuum Techniques; Material Characterization Techniques; Nano Sensors and Devices; Nano-electro-mechanical Devices; Material Science and Nanotechnology Lab; Nan-electronic, Sensors & End-effectors, Nano Materials & Characterization</td></tr>
<tr><td rowspan="2">8.</td><td rowspan="2">Research Guidance</td><td>Master's Dissertation</td><td colspan="2">18 Completed</td></tr>
<tr><td>Ph.D. Dissertation</td><td colspan="2">05 Completed
04 in Progress</td></tr>
<tr><td rowspan="4">9.</td><td rowspan="4">Research Publications</td><td rowspan="4">Total = 72 (SCI 60, SCOPUS 07, UGC/AICTE (01), Others 07)</td><td colspan="2">Number of Research Papers (SCI)</td></tr>
<tr><td>Publication in National Journals SCI (01), Others 02</td><td>03</td></tr>
<tr><td>Publication in International Journals
SCI-47, SCOPUS-06, UGC/AICTE-01, Others-05</td><td>72</td></tr>
<tr><td>Presented in Conferences/Seminars</td><td>--</td></tr>
<tr><td>10.</td><td>Projects Carried out</td><td colspan="3">02 completed (SERB-DST, CSIR), 01 ATAL FDP; 01 QIP-FDP, UGC DAE CSR (01) ongoing</td></tr>
<tr><td>11.</td><td>Patents</td><td colspan="3">Nil</td></tr>
<tr><td>12.</td><td>Technology Transfer</td><td colspan="3">Nil</td></tr>
<tr><td>13.</td><td>Number of Books Published with Details</td><td>01/10</td><td colspan="2">Book (01)
Ravi A. Kishore, Anthony Marin, Congcong Wu, Ashok Kumar and Shashank Priya; DEStech Publications, Inc., Lancaster, Pennsylvania, USA, ISBN: 978-1-60595-122-5 (2018)
Book Chapters (10)</td></tr>
</table>

S. No.				
1.	**Name**	**Dr. Balwinder Raj**		
2.	**Designation**	Associate Professor, Electronics & Communication Engineering		
3.	**Date of Joining the institution**	17.12.2019 as Associate Professor On lien to NIT Jalandhar		
4.	**Educational Qualification**	B.Tech. Electronics Engineering; M.Tech. in Microelectronics; Ph.D. (VLSI) IIT Roorkee Postdoc (2011) (VLSI) University of Rome, Italy		
5.	**Work Experience**	**Teaching**	**12 years**	
		Research	**14 years along with teaching**	
		Industry	**-**	
		Others (Administrative)	Coordinator NBA at NIT Jalandhar	
6.	**Area of Specialization**	Nanoscale Semiconductor Devices, Nanoelectronics, VLSI Design, Memory Design		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Basic Electronics; Electronics Devices and Circuits; Digital Electronics; Microprocessors; Embedded Systems; VLSI Design **At Postgraduate Level:** Low Power VLSI Design; Memory Design and Testing; Nanoelectronics; Solid State Devices; VLSI Technology		
8.	**Research Guidance**	**Master's Dissertation**	**25 Completed** **03 in progress**	
		Ph.D. Dissertation	**05 Completed** **03 in progress**	
9.	**Research Publications**	**Total = 85**	**Number of Research Papers**	
			Publication in National Journals	**10**
			Publication in International Journals	**35**
			Presented in Conferences/Seminars	**40**
10.	**Projects Carried out**	**02 Completed; 01 On-going**		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**03**	1. 'VLSI Design and Fabrications' by Balwinder Raj; Balwinder Singh and Ashish Dixit; New Delhi: University Science Press, 2013. 2. 'Single Electron Devices and Circuits Design' by HS Jatav; P. Srivastava and Balwinder Raj; Germany: Academic Publishing; 2012. 3. Major Applications of CNTFET, IGI Global, USA, 2019	

S. No				
1.	**Name**	**Dr. Harsh Vardhan Samalia**		
2.	**Designation**	Associate Professor, EDIC		
3.	**Date of Joining the institution**	25.02.2020 as Associate Professor		
4.	**Educational Qualification**	Ph.D., M.B.A., (Both from IIITM, Gwalior); B.E. (Mechanical), PG Diploma in Patent Law from NALSAR Law University, Hyderabad		
5.	**Work Experience**	**Teaching**	**17 years**	
		Research	**18 years along with teaching**	
		Industry	**1½ years**	
		Others (Administrative)	**-**	
6.	**Area of Specialization**	Strategic Management		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** -NA- **At Postgraduate Level:** Strategic Management – I, Strategic Management – II, Information Systems for Organizational Performance, Competitive Strategy, Strategies for New and Emerging Markets, Game Theory and Business Strategy, Strategies for Digital Transformation.		
8.	**Research Guidance**	**Master's Dissertation**	**20 Completed** **- In Progress**	
		Ph.D. Dissertation	**05 Completed** **02 In Progress**	
9.	**Research Publications**	**Total = 38**	**Number of Research Papers**	
			Publication in **National Journals**	**02**
			Publication in **International Journals**	**16**
			Presented in **Conferences/Seminars**	**20**
10.	**Projects Carried out**	**Nil**		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Nil**		

S. No				
1.	**Name**	**Dr. Hemant Kumar Vinayak**		
2.	**Designation**	Associate Professor, Entrepreneurship Development and Industrial Coordination		
3.	**Date of Joining the institution**	19.12.2019 as Associate Professor On lien to NIT Hamirpur		
4.	**Educational Qualification**	B.E. (Civil), M.E. (Civil), PhD (Earthquake Engineering)		
5.	**Work Experience**	**Teaching**	**16 years**	
		Research	**-**	
		Industry	**3½ years**	
		Others (Administrative)	**-**	
6.	**Area of Specialization**	Earthquake Engineering, Entrepreneur Development, Industrial coordination		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Building Materials, Building Construction and Drawing, Earthquake Resistant Design of Structures **At Postgraduate Level:** Rehabilitation and Retrofitting of concrete and Masonry, Earthquake Engineering		
8.	**Research Guidance**	**Master's Dissertation**	**17 Completed** **- In Progress**	
		Ph.D. Dissertation	**03 Completed** **- In Progress**	
9.	**Research Publications**	**Total = 30**	**Number of Research Papers**	
			Publication in **National Journals**	**4**
			Publication in **International Journals**	**15**
			Presented in **Conferences/Seminars**	**11**
10.	**Projects Carried out**	12 Projects - Sponsoring Agencies: DDMA, HP-RDD, HP-SSA/RMSA, HPSDMA, MC- Shimla, HIMCOSTE, NDMA		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Nil**		

S. No.				
1.	**Name**	**Shano Solanki**		
2.	**Designation**	Associate Professor, CSE		
3.	**Date of Joining the institution**	05.06.2000		
4.	**Educational Qualification**	ME (CSE); MCA; Ph.D. (in Progress)		
5.	**Work Experience**	**Teaching**	**23 years**	
		Research	**-**	
		Industry	**-**	
		Others (Administrative)	**-**	
6.	**Area of Specialization**	Advanced Algorithms, Multimedia System Design		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Post Graduate Level:** Advanced Algorithms, Multimedia System Design, Open Source Software, Soft Computing		
8.	**Research Guidance**	**Master's Dissertation**	**03 completed 14 in progress**	
		Ph.D. Dissertation	**-**	
9.	**Research Publications**	**09**	**Number of Research Papers**	
			Publication in **National Journals**	**-**
			Publication in **International Journals**	**01**
			Presented in **Conferences/Seminars**	**08**
10.	**Projects Carried out**	**Nil**		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Nil**		

S. No.					
1.	**Name**	**Amit Doegar**			
2.	**Designation**	Associate Professor and Head, CSE			
3.	**Date of Joining the institution**	14.02.2001			
4.	**Educational Qualification**	BE; M.E (Computer Science & Engg.); Ph.D. (in progress)			
5.	**Work Experience**	**Teaching**	**23 years**		
		Research	**-**		
		Industry	**02 years**		
		Others (Administrative)	**-**		
6.	**Area of Specialization**	Machine Learning, Networking, Linux Administration, Web Technology, Open Source Technology, Data Science, Image Processing and Computer Vision			
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Postgraduate Level:** Open Source Technology, Business Intelligence, Research Methodology, Distributed Operating System, Data Warehousing & Data Mining, Computer Vision, Digital Image Processing, Web based Training			
8.	**Research Guidance**	**Master's Dissertation**	**72 completed** **09 in progress**		
		Ph.D. Dissertation	**-**		
9.	**Research Publications**	**73**	**Number of Research Papers**		
			Publication in **National Journals**		**18**
			Publication in **International Journals**		**44**
			Presented in **Conferences/Seminars**		**11**
10.	**Projects Carried out**	Establishment of Cyber Security and Forensic Training Facility for Technical Teachers Training" sponsored by Department of Electronics & Information Technology (DeitY), Ministry of Communications and Information Technology, Grant Rs 45.65 lacs			
11.	**Patents**	**Nil**			
12.	**Technology Transfer**	**Nil**			
13.	**Number of Books Published with Details**	**01**	"Linux and Shell Programming", Magma Research and Consultancy Pvt. Ltd, ISBN: 978-81-930439-5-0, March 2015		

S. No.					
1.	**Name**	**Dr. Patange Sudhakar Rao**			
2.	**Designation**	Assistant Professor, Mechanical Engineering			
3.	**Date of Joining the institution**	07.10.2004			
4.	**Educational Qualification**	M.Tech.(CAD/CAM); Ph.D. (Mechanical Engg. from IIT, Roorkee)			
5.	**Work Experience**	**Teaching**	**20 years**		
		Research	**16 years** along with teaching		
		Industry	**04 years**		
		Others (Administrative)	-		
6.	**Area of Specialization**	CAD/CAM, CNC, Robotics and FEM, Advanced Manufacturing			
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** CAD/CAM, Robotics, Design of M/c; Elements, TOM, KOM, & FEM, Manufacturing Technology-I, Manufacturing Technology-II, CAD for Manufacturing, FET			
8.	**Research Guidance**	**Master's Dissertation**	**26 completed** **07 in progress**		
		Ph.D. Dissertation	-		
9.	**Research Publications**	**28**	**Number of Research Papers**		
			Publication in **National Journals**	**02**	
			Publication in **International Journals**	**05**	
			Presented in **Conferences/Seminars**	**21**	
10.	**Projects Carried out**	FEM for flywheel of an automobile; Design of forging dies using CAM; Design of sheet metal dies using CAM Study and Analysis of Capacity Utilization, Process Planning and Production Control in Machining Process Implementation of Total Productive Maintenance: A Case Study			
11.	**Patents**	**Nil**			
12.	**Technology Transfer**	**Nil**			
13.	**Number of Books Published with Details**	**Nil**			

S. No.				
1.	**Name**	**Dr. (Mrs.) Kanika Sharma**		
2.	**Designation**	Assistant Professor, ECE		
3.	**Date of Joining the institution**	17.11.2004		
4.	**Educational Qualification**	M.E. (ECE); Ph.D. (ECE)		
5.	**Work Experience**	**Teaching**	**21 years**	
		Research	**19 years along with teaching**	
		Industry	**-**	
		Others (Administrative)	**-**	
6.	**Area of Specialization**	Embedded Systems Designs; Self Configured Wireless Sensor Networks; Digital Systems Designing; Energy Efficient Sensor Networks.		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Micro-processors, Digital Communication, Communication Systems; **At Postgraduate Level:** Digital System Design, Embedded System Design		
8.	**Research Guidance**	**Master's Dissertation**	**64 completed** **10 in progress**	
		Ph.D. Dissertation	**02 completed**	
9.	**Research Publications**	**89**	**Number of Research Papers**	
			Publication in **National Journals**	**02**
			Publication in **International Journals**	**87**
			Presented in **Conferences/Seminars**	**24**
10.	**Projects Carried out**	**Nil**		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Nil**		

S. No.				
1.	**Name**	**Dr. Amit Goyal**		
2.	**Designation**	Assistant Professor, Civil Engineering		
3.	**Date of Joining the institution**	05.06.2006		
4.	**Educational Qualification**	BE (Civil); ME (Structures); Ph.D. (Earthquake Engg., from IIT, Roorkee)		
5.	**Work Experience**	**Teaching**	**17 years**	
		Research	**13 years along with teaching**	
		Industry	**½ year**	
		Others (Administrative)	-	
6.	**Area of Specialization**	Civil (Structures), Earthquake Engineering, Structure Dynamics, Masonry Structures		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Subject related to Structures TOS, DESIGN, R.C.C, T.O.S LAB, F.M **At Postgraduate Level:** Structures, Tall Buildings, Rural Housing, NDT Techniques, Low cost constructional materials		
8.	**Research Guidance**	**Master's Dissertation**	**02 completed**	
		Ph.D. Dissertation	-	
9.	**Research Publications**	**21**	**Number of Research Papers**	
			Publication in **National Journals**	**03**
			Publication in **International Journals**	**02**
			Presented in **Conferences/Seminars**	**16**
10.	**Projects Carried out**	Non-destructive Testing of R.C.C Structures, Rehabilitation of RCC & Masonry Buildings, Repair of Bridges and Rehabilitation; Research study on Private V/s. Govt. Polytechnics for the state of Rajasthan		
11.	**Patents**	**01 (under process;CINIITR0000100024CCRN04)**		
12.	**Technology Transfer**	Ferro cement Technology, Earthquake Resistant Housing, low cost housing, floating rafters, water filtration system		
13.	**Number of Books Published with Details**	**One**	'Empowering the Disabled' (authored by Saini, JS & Goyal, A), Chandigarh: Abhishek Publications, 2009	

S. No.					
1.	**Name**	**Dr. (Mrs.) Garima Saini**			
2.	**Designation**	Assistant Professor, ECE			
3.	**Date of Joining the institution**	20.09.2006			
4.	**Educational Qualification**	B.Tech., M.Tech. (ECE), Ph.D.(ECE)			
5.	**Work Experience**	**Teaching**	**23 years**		
		Research	**15 years along with teaching**		
		Industry	**-**		
		Others (Administrative)	**-**		
6.	**Area of Specialization**	Wireless and Mobile Communication, Advanced Digital Communication, Advanced Antenna Design			
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Analog Electronics, Digital Electronics, Communication System; **At Postgraduate Level:** Advanced Digital Communication, Mobile & Wireless Communication, Advanced Antenna System			
8.	**Research Guidance**	**Master's Dissertation**	**50 completed 16 in progress**		
		Ph.D. Dissertation	**-**		
9.	**Research Publications**	**83**	**Number of Research Papers**		
			Publication in **National Journals**		**02**
			Publication in **International Journals**		**49**
			Presented in **Conferences/Seminars**		**32**
10.	**Projects Carried out**	**Nil**			
11.	**Patents**	**Nil**			
12.	**Technology Transfer**	**Nil**			
13.	**Number of Books Published with Details**	**Nil**			

S. No.				
1.	**Name**	**Dr. Shimi SL**		
2.	**Designation**	Assistant Professor, Electrical Engineering on lien to Punjab Engineering College, Chandigarh w.e.f 06.04.2023		
3.	**Date of Joining the institution**	05.08.2011		
4.	**Educational Qualification**	BE (Electrical & Electronics), ME (Power Electronics & Drives), Ph.D. Post doctoral Researcher in Electric Power Engineering at Luleå University of Technology, Skellefteå campus, Sweden from August 2019 till august 2020		
5.	**Work Experience**	**Teaching**	**19 years**	
		Research	**05 years along with teaching**	
		Industry	**01 year**	
		Others (Administrati	**-**	
6.	**Area of Specialization**	Power Electronics & Drives; Digital Control; FACTS, MATLAB and its Hardware Interface, LABVIEW, Artificial Intelligence and Optimization, Outcome Based Education, Hybrid Vehicles, Smart Grid		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Power Electronics & Drives, Electrical machines, Circuit Theory, Digital Electronics, Environmental Science; MATLAB Programming, Automation in Industrial Process Control; and Laboratory Practices **At Postgraduate Level:** Digital Control, Industrial Electronics, Advance Control Theory, Power Electronics		
8.	**Research Guidance**	**Master's Dissertation**	**70 completed** **20 in progress**	
		Ph.D. Dissertation	**-**	
9.	**Research Publications**	**150**	**Number of Research Papers**	
			Publication in **National Journals**	**01**
			Publication in **International Journals**	**99**
			Presented in **Conferences/Seminars**	**50**
10.	**Projects Carried out**	Real Time simulation of boost converter; Microcontroller based Multi-starter for squirrel cage induction motor; DST, Chandigarh – Emerging Vehicle Pre-emption		
11.	**Patents**	• Twenty-five level Inverter Topology with reduced number of Power Switches and DC Voltage Sources, Prior Search over, vide letter No. PSCS7/1965 dated 27.08.2018. Filing process on progress by PSCST, Chandigarh; • Patent filed - Indian Patent Application No. 202011003964, Title : Multilevel Inverter was filed on January 29, 2020, in the name of NITTTR [V & A Ref: 1779-P-02-IN/TIFAC Ref: T.I. (59)/TIFA/2018], Inventors : Mr. Rohit Kumar and Dr. Shimi Sudha Letha		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**01**	1. Solar Powered Cascaded Multilevel Inverter by Shimi Sudha Letha, Publisher: Lap Lambert Academic Publishing, ISBN: 9786139995400, 2019	

S. No.				
1.	**Name**	**Dr. Mala Kalra**		
2.	**Designation**	Assistant Professor, CSE		
3.	**Date of Joining the institution**	09.08.2011		
4.	**Educational Qualification**	BE (CSE), ME (CSE); Ph.D. (Engg.)		
5.	**Work Experience**	**Teaching**	**20 years**	
		Research	**10 years along with teaching**	
		Industry	**½ year**	
		Others (Administrative)	**-**	
6.	**Area of Specialization**	Cloud Computing, Swarm Intelligence, Fog/Edge Computing, Data Science		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Computer Networking, Operating System, Data Structures, Web Technologies **At Postgraduate Level:** Cloud Computing; Network Security; Software Testing & Quality Management.		
8.	**Research Guidance**	**Master's Dissertation**	**45 completed** **06 in progress**	
		Ph.D. Dissertation	**- completed** **03 in progress**	
9.	**Research Publications**	**52**	**Number of Research Papers**	
			Publication in **National Journals**	**-**
			Publication in **International Journals**	**18**
			Presented in **Conferences/Seminars**	**51**
10.	**Projects Carried out**	02 Completed: Establishment of Cyber Security and Forensic Training Facility for Technical Teachers Training sponsored by Ministry of IT (2013-2015); Share and Mentor Institutions (Margdarshan) Scheme sponsored by AICTE (2019-23)		
11.	**Patents**	**01 (**A System for Wirelessly monitoring water level in a water tank & method thereof granted on 22.03.2024 (co-inventor) Patent No. 529897		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**02**	Proceedings of International Conference on IOT Inclusive life (ICIIL, 2019), LNNS Book Series, Vol. 116, Springer, Singapore (Editor) Proceedings of International Conference on Artificial Intelligence of Things (ICAIoT) 2023, CCIS Book series, Vol. 1930, Springer. (Editor)	

S. No.					
1.	**Name**	**Himmi Gupta**			
2.	**Designation**	Assistant Professor, Civil Engineering			
3.	**Date of Joining the institution**	26.08.2011			
4.	**Educational Qualification**	BE (Civil), M.E. (Structures); Ph.D. (pursuing)			
5.	**Work Experience**	**Teaching**	**13 years**		
		Research	**-**		
		Industry	**06 years**		
		Others (Administrative)	**-**		
6.	**Area of Specialization**	Structural Engineering, Bridge Engineering, Project Management, Environmental Engg., Structural Retrofitting and Rehabilitation, Construction Management, Sustainable Development, Green Buildings.			
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Postgraduate Level:** Structural Engineering, Bridge Engineering, Project Management, Environmental Engg., Structural Retrofitting and Rehabilitation, Construction Management, Green Buildings & Services, Rural Construction Technology.			
8.	**Research Guidance**	**Master's Dissertation**	**16 completed 05 in progress**		
		Ph.D. Dissertation	**-**		
9.	**Research Publications**	**33**	**Number of Research Papers**		
			Publication in **National Journals**	**10**	
			Publication in **International Journals**	**10**	
			Presented in **Conferences/Seminars**	**13**	
10.	**Projects Carried out**	**-**			
11.	**Patents**	**Nil**			
12.	**Technology Transfer**	**Nil**			
13.	**Number of Books Published with Details**	**Five**	1. Proceedings of National Seminar on Emerging Trends in Civil Engineering, 16-17 Nov., 2011 (Dr. Sanjay K. Sharma & Himmi Gupta) 2. Proceedings of National Conference on Sustainable Infrastructure Development (NCSID) 13-14 March, 2014; (Dr. Sanjay K. Sharma, Dr. Varinder Singh Kanwar, Himmi Gupta & Jyothi PM) 3. Proceedings of Training Program on Energy Efficient and Green Buildings from 24-26 Feb 2014. (Dr. Sanjay K. Sharma, Himmi Gupta & Er. Balkar Singh) 4. Proceedings of National Conference on Sustainable Infrastructure Development-2015 (NCSID-2015) from 26-27 Feb, 2015. (Dr. Sanjay K. Sharma, Dr. Varinder Singh Kanwar, Himmi Gupta, Dr. Bushra Zaman, Dr. C. Prakasam & Jyothi PM) 5. Proceedings of 31st National Convention of Environmental Division Board of the Institution of Engineers (India) and National Seminar on Climate Change – Need for Global Partnership from November 6-7, 2015. (Siby John, P.S. Bhogal & Himmi Gupta)		

S. No.				
1.	**Name**	**Amardev Singh**		
2.	**Designation**	Assistant Professor, EDIC		
3.	**Date of Joining the institution**	17.08.2012		
4.	**Educational Qualification**	B.Tech. (ECE), MBA (IT- Networking), Ph.D. in Business Mgt. (Pursuing)		
5.	**Work Experience**	**Teaching**	**13 years**	
		Research	**03 years along with teaching**	
		Industry	**½ year**	
		Others (Administrative)	-	
6.	**Area of Specialization**	Entrepreneurship Development, Business Management, Intellectual Property Rights, IT – Networking; Marketing Management, Technology Adoption & Management; Green Information Technology		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Marketing Management, Entrepreneurial Development & Mgt., Microwave & Radar Engineering, Signals & Systems, Human Resource Management **At Postgraduate Level:** - Technology Management, Principles of Management, Research Methodology, Organizational Behaviour		
8.	**Research Guidance**	**Master's Dissertation**	**-** **-**	
		Ph.D. Dissertation	**-**	
9.	**Research Publications**	**07**	**Number of Research Papers**	
			Publication in **National Journals**	**01**
			Publication in **International Journals**	**-**
			Presented in **Conferences/Seminars**	**06**
10.	**Projects Carried out**	**Nil**		
11.	**Patents**	**Nil**		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**Nil**		

S. No.					
1.	**Name**	**Amandeep Kaur**			
2.	**Designation**	Assistant Professor, Education & Educational Management			
3.	**Date of Joining the institution**	09.07.2014			
4.	**Educational Qualification**	BE (Chemical Engg), ME (Environmental Engg.); Ph.D. (pursuing)			
5.	**Work Experience**	**Teaching**	**15 years**		
		Research	-		
		Industry	-		
		Others (Administrative)	-		
6.	**Area of Specialization**	Environmental Engineering, Educational Management, Advanced teaching strategies, Evaluation and assessment, Classroom Communication			
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Fluid Mechanics, Environmental Sciences, Natural Disaster Management **At Postgraduate Level:** - Research Methodology, Project Planning & Management, Environmental Impact Assessment & Policy			
8.	**Research Guidance**	**Master's Dissertation**	**-** **-**		
		Ph.D. Dissertation	**-**		
9.	**Research Publications**	**13**	**Number of Research Papers**		
			Publication in **National Journals**	**02**	
			Publication in **International Journals**	**06**	
			Presented in **Conferences/Seminars**	**05**	
10.	**Projects Carried out**	• **Developed** & Coordinated AICTE-NTTT MOOC Module 3: '**Communication Skills, Modes and Knowledge Dissemination**' (12 Video and 7 e-content) launched on SWAYAM Portal from 2nd March to 27th April, 2020 (with 9444 participants. • **Developed** 6 video and 3 e-content for MOOC, **'Research in Technical Education'** launched on SWAYAM portal. • 8 Video Films available on YouTube			
11.	**Patents**	**Nil**			
12.	**Technology Transfer**	**Nil**			
13.	**Number of Books Published with Details**	**01 Book Chapter**	2. Health Impacts due to Fluoride Contamination in Water: Current Scenario. In Health Risk Assessment & Treatment Strategies; Elsevier, 2021; 65-84p (Amandeep Kaur , Ritu Bala, SS Bhinder & SK Kansal)		

S. No.				
1.	**Name**	**Dr. Kailash Chandra Lachhwani**		
2.	**Designation**	Assistant Professor, Applied Sciences		
3.	**Date of Joining the institution**	08.01.2015		
4.	**Educational Qualification**	M.Sc. (Maths), MPhil, Ph.D. (Maths); MBA		
5.	**Work Experience**	**Teaching**	**18 years**	
		Research	**-**	
		Industry	**-**	
		Others (Administrative)	**-**	
6.	**Area of Specialization**	Operation Research, Mathematical Programming		
7.	**Subjects teaching at Under Graduate Level & Post Graduate Level**	**At Undergraduate Level:** Engineering Mathematics, Operation Research, Optimization techniques **At Postgraduate Level:** - Operation Research		
8.	**Research Guidance**	**Master's Dissertation**	**01 (Ph.D Awarded)**	
		Ph.D. Dissertation	**-**	
9.	**Research Publications**	**42**	**Number of Research Papers**	
			Publication in **National Journals**	**09**
			Publication in **International Journals**	**16**
			Presented in **Conferences/Seminars**	**17**
10.	**Projects Carried out**	**Nil**		
11.	**Patents**	1. *Copyright filled* "MATLAB Program for solving Multi-level Linear Fractional Programming Problems based on modified Fuzzy Goal Programming Approach"© (Reg.No. SW-11904/2018) 2. *Copyright of* "MATLAB Codings for solving Multi-Level Multiobjective Linear Fractional Programming Problems based on modified fuzzy goal programming approach"©		
12.	**Technology Transfer**	**Nil**		
13.	**Number of Books Published with Details**	**One**	Engineering Mathematics II, 2009, Jaipur: Saroj Publication	

M.E. (MODULAR) PROGRAMMES-2024-25

1. Objectives of M.E. Programmes

To keep pace with rapid advancement in technology, the country requires high quality manpower with technical and managerial capabilities in the 21st Century. There are primarily three distinct categories of technical manpower needed by the industry in the country i.e., engineering, technicians and skilled workers. Personnel of each of these categories play an equally important role in the day-to-day running as well as the development and growth of industry. The institutions which are producing technical manpower, therefore, need teachers who have the required knowledge and skills to train good technicians and engineers.

Thus, there is a great need to reorient and upgrade the knowledge and skills of existing teachers of technical institutions through Industry oriented and Practice based Programmes in Engineering and Technology as Master's Degree Level. These programmes will help develop the professional capabilities desired by teachers for training technicians/engineers that would meet the changing requirements of industry.

2. Special Features of M.E. Programmes

a. The nature of programmes offered are flexible, allowing self-pacing and taking up courses of study in a sequence and at the time convenient to the students within the maximum time frame as stipulated by the institute for the completion of the programme.
b. The focus is on the mastery of minimum essential competencies, enhancement of knowledge and development of capabilities such as learning to learn, problem solving, management skills etc.
c. The curriculum contents of the programmes are aligned with the National Higher Education Qualification Framework and NEP-2020 guidelines.
d. The curriculum contents of all these programmes will encompass the future of work, sustainable development, women-led development and harnessing of technology.
e. The focus is to update the knowledge base of teachers/students in specialized field(s) through these programmes. In addition to classroom teaching and laboratory work, the programmes make use of a combination of instructional techniques such as group discussion, home assignments, individual and group projects, independent study, remedial instruction, industry-based instruction, expert lecture sessions, field visit to industry etc.
f. Assessment of students' performance is based on both continuous evaluation and end-semester evaluation with the use of a variety of assessment techniques matching the learning objectives of different courses of study. Completion of course work is followed by a thesis.
g. Almost all courses contain practical/laboratory tasks. These tasks form an essential component of the curriculum implementation. Thesis work is based on problems of the technical education system, 'On – Job Problems' of Industries and other societal problems.

3. Master of Engineering (Modular) Programmes – Sanctioned Intake and Reservation

Sanctioned Intake

S. No.	Programme	Intake
1.	M.E. in Civil Engineering (Construction Technology and Management)	24
2.	M.E. in Computer Science and Engineering	12
3.	M.E. in Electrical Engineering (Instrumentation & Control)	24
4.	M.E. in Electronics and Communication Engineering (VLSI Design)	24
5.	M.E. in Mechanical Engineering (Manufacturing Technology)	24

Reservation

15% seats are reserved for SC candidates, 7.5% seats for ST candidates, 3% for persons with different abilities (PWD) candidates, 27% seats for OBC candidates and 10% for EWS under general category as per instructions of Govt. of India applicable to Educational Institutions. The

institute reserves the right of admission entirely and the decision of NITTTR (Deemed to be University) authorities on admission will be final in all the cases.

Categories of Admission

NITTTR (Deemed to be University under Distinct Category) Chandigarh offers M.E. Programmes for the following categories of students:

a) In-service Teachers/Technical Staff of Technical Institutions/ Officials of State DTEs/ BTEs
b) Working Professionals from Industry/ Other Organizations
c) Engineering Graduates with one year experience aspiring to be teachers. **The preference for admission will be given as per the above sequence.**

4. Eligibility Criteria: Qualifications and Experience for Admission

a) M.E. in Civil Engineering (Construction Technology and Management): A Bachelor's Degree in Civil Engineering or equivalent from a recognized University with at least 60% marks* in aggregate and post qualification experience of at least 1 year (2)

b) M.E. in Computer Science and Engineering: A Bachelor's Degree in Computer Science & Engineering/ Information Technology or equivalent from a recognized University with at least 60% marks* in aggregate and post qualification experience of at least 1 year

c) engineering graduates with above educational qualifications (with or without experience) can also apply. But they will be considered after the applications received in the above category are exhausted.

d) M.E. in Electrical Engineering (Instrumentation & Control): A Bachelor's Degree in Electrical Engineering/ Electrical and Electronics Engineering/ Electronics Engineering/ Instrumentation and Control Engineering or equivalent from a recognized University with at least 60% marks* in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE**) in teaching/ industry/ research organization. However, engineering graduates with above educational qualifications (with or without experience) can also apply. But they will be considered after the applications received in the above category are exhausted.

e) M.E. in Electronics and Communication Engineering (VLSI Design): A Bachelor's Degree in Electronics and Communication Engineering/ Electronics Engineering/ Microelectronics/ VLSI Design/ Microelectronics and VLSI Design or equivalent from a recognized University with at least 60% marks* in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE**) in teaching/ industry/ research organization. However, engineering graduates with above educational qualifications (with or without experience) can also apply. But they will be considered after the applications received in the above category are exhausted.

f) M.E. in Mechanical Engineering (Manufacturing Technology): A Bachelor's Degree in Mechanical Engineering/ Manufacturing Engineering (or Technology)/ Production Engineering/ Industrial Engineering/ Automobile Engineering or equivalent from a recognized University with at least 60% marks* in aggregate and post qualification.

Experience of at least 1 year (2 years in case of AMIE**) in teaching/ industry/ research organization. However, engineering graduates with above educational qualifications (with or without experience) can also apply. But they will be considered after the applications received in the above category are exhausted.

* Relaxation in marks/grades as per GoI norms for reserved categories

**As per GoI guidelines

Note: A certified copy of the conversion formula, in case of marks in grade points (i.e., CGPA to %), is essential.

5. Duration of the Programmes

The normal duration of M.E. (Modular) Programmes including thesis will be 3½ academic years (7 spells, each spell of 5 weeks duration). The maximum period of completion of the programme including thesis shall be 5½ academic years (11 spells).

Years in case of AMIE**) in teaching/ industry/ research organization. However, engineering graduates with above educational qualifications (with or without experience) can also apply. But they will be considered after the applications received in the above category are exhausted.

Preparation of Merit List

The institute prepares a merit list of all sponsored eligible candidates based on the aggregate percentage of marks obtained in all the semesters/years of qualifying examination and the total experience. The admission is granted to candidates strictly according to the merit list, prepared as follows:

i) Qualification: Aggregate % of marks in B.E. or its equivalent X 4 (Multiplying Factor) The candidates must write in the application form at the appropriate S. No. the maximum marks, marks obtained in each of eight semesters/four years and the exact % of aggregate marks.

ii) Experience: One score for each number of completed years of total experience on the last day of receiving application gained after obtaining minimum entry qualification subject to a maximum of ten. Experience against leave vacancy, visiting/guest faculty will not be counted.

Note: The total score calculated based on qualifications and experience as mentioned in (i) and (ii) above should not be less than 25. In case of a tie in the score of merit so calculated, seniority in age will be the deciding factor for their inter-se merit.

Master of Engineering in Emerging Areas- (Regular Programmes) for the Academic Session 2023-24:

S. No.	Branch of Master of Engineering (Regular) Programme	Sanctioned Intake
i.	M.E. in Computer Science and Engineering (Specialization in Internet of Things)	18
ii.	M.E. in Electronics & Communication Engineering (Specialization in Artificial Intelligence)	18
iii.	M.E. in Mechanical Engineering (Specialization in Robotics)	18

Salient Features of these M.E. Programmes (in Emerging Areas):
Approved by AICTE and Panjab University, Chandigarh; Affordable Fee Structure (Approximately Rs. 1,30,000/- for the complete programme); 50% of the Courses are offered by Industry Experts; Students can complete One full year Internship in Industry as there are no subjects offered in contact mode; During 2nd year, Placement Assistance will be provided; Industry relevant and highly practical oriented Subjects; All subjects will be covered with Industrial Case Studies; Scholarships for GATE qualified students; Competitive Curriculum, etc.

Criteria for Admission: Fresh Engineering graduates shall be admitted on the basis of valid GATE score or OCET (Other Common Entrance Test, if conducted by Panjab University, Chandigarh) merit of PU, Chandigarh {as per criteria approved by Panjab University, Chandigarh}. All such candidates must apply for these programmes in the institute by the last date on the application form downloaded from www.nitttrchd.ac.in. In addition, they (candidates without valid GATE score) are also required to apply to Panjab University, Chandigarh for appearing in the OCET (Rules & Regulations and date of OCET can be checked from website of Panjab University, Chandigarh: www.pu.ac.in).

Total number of seats in each of the ME Regular Programmes is given below:

S. No.	Branch of Master of Engineering (Regular) Programme	Sanctioned Intake
i.	ME in Mechanical Engineering (Manufacturing Technology)	23
ii.	ME in Civil Engineering (Construction Technology & Management)	31
iii.	ME in Computer Science & Engineering	23
iv.	ME in Electrical Engineering (Instrumentation and Control)	23
v.	ME in Electronics & Communication Engineering	21

ME Regular Programmes:

- The details about number of seats for **full time** sponsored Polytechnic/Engineering College Regular teachers, officials of Directorates and Boards of Technical Education; for **full time** sponsored working professionals from industry/other organizations including technical staff of universities and; for fresh engineering graduate candidates are given in the Prospectus/Brochure. **Fresh Engineering graduates shall be admitted on the basis of valid GATE score or OCET (Other Common Entrance Test, if conducted by PU, Chandigarh) merit of PU, Chandigarh {as per criteria approved by Panjab University, Chandigarh}. All such candidates must apply for these programmes in the institute by the last date on the application form downloaded from www.nitttrchd.ac.in. In addition, they are also required to apply to Panjab University, Chandigarh for appearing in the OCET (Rules & Regulations and date of OCET can be checked from website of Panjab University, Chandigarh: www.pu.ac.in).**

Vacant seats, if any, under sponsored category candidates in all ME (Regular) programmes will be filled up from amongst corresponding eligible fresh graduates (with valid GATE score or through OCET of PU, Chandigarh).

Due credit will be given to GATE qualified fresh engineering candidates for these ME Regular programmes only (and shall be offered the seat at the first instance as per Panjab University rules & regulations). **GATE qualified candidates shall be paid scholarship as per AICTE guidelines.**

ME Modular Programmes:

Total number of seats in each of the ME Modular Programmes is given below:

S. No.	Branch of Master of Engineering (Modular) Programme	Number of seats
		Modular
i.	ME in Mechanical Engineering (Manufacturing Technology)	23
ii.	ME in Civil Engineering (Construction Technology & Management)	45
iii.	ME in Computer Science & Engineering	23
iv.	ME in Electrical Engineering (Instrumentation and Control)	23
v.	ME in Electronics & Communication Engineering	23

Total number of seats in each of the five ME (Modular) programmes at Sr. Nos. (*i*) to (*v*) above are 18 **except in case of Civil Engineering (35 seats)**, for sponsored Polytechnic/Engineering College Regular teachers, officials of Directorates, Boards of Technical Education, Universities and official/staff of NITTTRs. However, sponsored candidates from industry & other organizations may also apply in these ME (Modular) programmes as vacant seats, if any, under sponsored teacher category candidates in all ME (Modular) programmes will be filled up from amongst corresponding eligible sponsored candidates from industry and other organizations.

Reservation

15% seats are reserved for SC candidates, 7.5% seats for ST candidates, 3% for disabled candidates, 27% seats for OBC candidates and 10% for EWS under general category as per instructions of Govt. of India applicable to Central Educational institutions. The institute reserves the right of admission entirely and the decision of NITTTR authorities on admission will be final in all the cases. The institute reserves the right to make any amendment in the prospectus as and when it is deemed necessary.

❖ **Preparation of Merit List:**

a) **Sponsored Candidates**

The institute prepares a merit list of all sponsored eligible candidates based on the aggregate percentage of marks obtained in all the semesters/years of qualifying examination and the total experience. The admission is granted to candidates strictly according to the merit list, prepared as follows:

(i) Qualification	**Multiplying Factor**
% of marks in BE or its equivalent	x 0.4

The candidates must write in the application form (under S.No. 11), the maximum marks, marks obtained in each of eight semesters/four years and the exact percentage of aggregate marks.

(ii) Experience

One score for each number of completed years of total experience on the last day of receiving application gained after obtaining minimum entry qualification subject to a maximum of ten. Experience against leave vacancy, visiting/guest faculty will not be counted.

Note: The total score calculated based on qualifications and experience as mentioned in (i) and (ii) above should not be less than 25.

b) Fresh Engineering graduates for admission in ME Regular programmes at S.No. (i), (ii) and (iii) as stated on page 4 and 5

c) Fresh Engineering graduates and candidates from industry/other organizations including technical staff of universities for admission in ME Regular programmes at S.No. (iv) and (v) as stated on page 4 and 5.

The candidates listed at (b) and (c) above shall be admitted on the basis of valid GATE score {obtained and shall
be offered the seat at the first instance} or through CET merit {as per criteria approved by Panjab University, Chandigarh}.

Qualifications and Experience for Admission:

(i) M.E. Computer Science and Engineering Programmes:

a) M.E. in Computer Science and Engineering with Specialization in IoT (Internet of Things) Programme – An Industry Attached Specialization Programme in the emerging area of IoT

A Bachelor's Degree in Computer Science & Engineering/Electronics Engineering/ Electrical Engineering/ Instrumentation & Control Engineering/Information Technology from a recognized University or its equivalent with at least 60% marks in aggregate.

b) M.E. in Computer Science and Engineering

A Bachelor's Degree in Computer Science & Engineering/Electronics Engineering/ Electrical Engineering/ Instrumentation & Control Engineering/Information Technology from a recognized University or its equivalent with at least 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in teaching/industry/research organization. However,

fresh graduates can also apply. But they will be considered after the applications received as per above qualifications are exhausted.

(ii) M.E. Electrical Engineering Programmes:

a) M.E. in Electrical Engineering (Instrumentation and Control) Programme

A Bachelor's Degree in Electrical Engineering /Electronics Engineering/ Instrumentation and Control Engineering from a recognized University or its equivalent with at least 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in teaching/industry/research organization. However, fresh graduates can also apply. But they will be considered after the applications received as per above qualifications are exhausted.

(iii) M.E. Electronics & Communication Engineering

a) M.E. in Electronics & Communication Engineering with Specialization in AI (Artificial Intelligence) - An Industry Attached Specialization Programme in the emerging area of AI

A Bachelor's Degree in Electronics and Communication Engineering from a recognized University or its equivalent with at least 60% marks in aggregate.

b) M.E. in Electronics & Communication Engineering

A Bachelor's Degree in Electronics and Communication Engineering from a recognized University or its equivalent with at least 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in teaching/industry/research organization. However, fresh graduates can also apply. But they will be considered after the applications received as per above qualifications are exhausted.

(iv) M.E. Mechanical Engineering (Manufacturing Technology)

a) M.E. in Mechanical Engineering with Specialization in Robotics (Robotics) Programme – An Industry Attached Specialization Programme in the emerging area of Robotics

A Bachelor's Degree in Mechanical Engg/Manufacturing Engineering (or Technology)/ Production Engg./Industrial Engg./Automobile Engineering from a recognized University or its equivalent with at least 60% marks in aggregate

b) M.E. in Mechanical Engineering (Manufacturing Technology) Programme

A Bachelor's Degree in Mechanical Engg/Manufacturing Engineering (or Technology)/ Production Engg./Industrial Engg./Automobile Engineering from a recognized University or its equivalent with at least 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in teaching/industry/research organization. However, fresh graduates can also apply. But they will be considered after the applications received as per above qualifications are exhausted.

(v) ME in Civil Engineering (Construction Technology & Management) Programme

A Bachelor's Degree in Civil Engineering from a recognized University or its equivalent with at least 60% marks in aggregate and post qualification experience of at least 1 year (2 years in case of AMIE) in
teaching/industry/research organization. However, fresh graduates can also apply. But they will be considered after the applications received as per above qualifications are exhausted.

A certified copy of conversion formula, in case of marks in grade points (i.e., CGPA to %), is essential. No Experience is required for admission of Fresh Engineering Graduates to ME (Regular) programmes and Industry Attached Specialization Programmes.

Admission under DASA only for ME Regular Programmes

Two seats in each of ME Mechanical Engineering (Manufacturing Technology) ME Civil Engineering (Construction Technology & Management) and ME Electrical Engineering (Instrumentation & Control)

and three seats in each of ME Computer Science & Engineering and ME Electronics & Communication Engineering Regular programmes had been available in the past under DASA in respect of foreign nationals/PIOs and NRIs. Efforts are being made to continue the same.

❖ **Cut off/last candidate admitted: The data for the year 2020 – 21, 2021 – 22, 2022-23 & 2023-24 is given below:**

S. No.	M.Tech/ME Programme(s)	2020– 21		2021– 22		2022– 23		2023-24	
		MINIMUM SCORE	MINIMUM SCORE	MINIMUM SCORE	MAXIMUM SCORE	MINIMUM SCORE	MAXIMUM SCORE	MINIMUM SCORE	MAXIMUM SCORE
1.	ME Civil Engg. (Const. Tech. & Mgt.) (Regular)	25.16	32.24	24.20	33.42	28.32	34.99	24.92	39.5
2.	ME Mechanical Engg. (Manufacturing Tech.) (Regular)	24.00	35.48	25.96	33.60	--	--	24.23	24.23
3.	ME Comp. Sc. & Engg. (Regular)	26.8	33.84	24.76	33.04	--	--	Nil	Nil
4.	ME Electrical Engg. (Inst. & Control) (Regular)	25.72	33.62	25.72	33.4	--	--	Nil	Nil
5.	ME Eltx. & Comm. Engg. (Regular)	26.63	35.08	23.84	28.16	--	--	Nil	Nil
6.	ME Civil Engg. (Const. Tech. & Mgt.) (Modular)	28.2	39.48	24.42	32.98	29.98	40.68	29.5	41.16
7.	ME Mechanical Engineering (Manuf Tech.) (Modular)	29.93	40.07	24.16	33.12	28.80	39.60	28.69	49.12
8.	ME Comp. Sc. & Engg. (Modular)	28.45	39.81	24.75	31.56	27.68	38.87	31.18	37.83
9.	ME Electrical Engg. (Inst. & Control) (Modular)	26.90	40.65	24.15	32.92	28.78	41.46	28.76	41.15
10.	ME Eltx. & Comm. Engg. (Modular)	29.040	38.73	22.92	32.74	29.36	37.20	31.12	35.01

Marks obtained vide above mentioned admission criteria are displayed on the notice boards and institute website.

❖ **APPLICATION FORM:** Downloadable application form with online submission possibilities: **Put on website during admission process;** List of candidates whose applications have been received along with percentile/ percentage score for each of the qualifying examination in separate categories for open seats: **List was displayed & loaded on the website also.**

❖ List of candidates who have applied along with percentage and percentile score for Management/ quota seats. : Not applicable

❖ **FEE IN RUPEES (₹)**

a) Programme Fee (for M.E. Courses in Emerging Areas – with Specializations)

Fee Detail	For ME Regular Programmes (in ₹)
Admission Fee (one time)	₹ 2,000/-
Programme Fee	₹ 40,000/- I Semester; ₹ 40,000/- II Semester ₹ 25,000/- III Semester; ₹ 25,000/- IV Semester Total: 1,30,000/- (For 2 Years)
Continuation Fee	5000/- per semester (after 4th semester to be paid to NITTTR in addition to university continuation fee)
Pre-Thesis Exam and Final Thesis Exam	₹ 2000/- per candidate per exam
Security (refundable)	₹ 7,000/- (one time)
Insurance Fee	₹ 500/- (one time for 2 years)

b) Programme Fee for other Regular M.E. Programmes

S.No.	Details of Fee	Modular	Regular
i)	Admission fee one time	₹ 2,000/-	₹ 2,000/-
ii)	**Programme fee:** a) Sponsored Teachers of Tech. Instts., officials of DTEs/BTEs etc. b) Fresh Engineering Graduates c) Industries candidates	₹ 15,000/- per spell -------- ₹ 17,000/- per spell	₹ 20,000/- per semester ₹ 25,000/- per semester ₹ 25,000/- per semester
iii)	Various funds payable to Institute	₹ 2,800/- (annually)	₹ 3,300/- per semester
iv)	a) Various fee and funds payable to the Panjab University b) University Examination fee	₹ 1,775/- (annually) ₹ 3,385/- per spell	₹ 1,775/- (annually) ₹ 3,385/- per semester
v)	Continuation Fee	₹ 5000/- per spell (after 7th spell) to be paid to NITTTR in addition to university continuation fee	₹ 5000/- per semester (after 4th semester to be paid to NITTTR in addition to university continuation fee)
v)	Security refundable	₹ 7,000/- (One Time)	₹ 7,000/- (One Time)
vi)	Pre-Thesis Exam and Final Thesis Exam	₹ 2000/- per candidate/exam	₹ 2000/- per candidate per exam
vii)	Extension of period for submission of thesis (per year or part thereof)	₹ 1,500/- (or as prescribed from time to time)	₹ 1,500/- (or as prescribed from time to time)
viii)	Insurance Fee	--	₹ 750/- (one time for 2 years)

❖ **NUMBER OF FEE WAIVERS OFFERED : NIL**

Academic Calendar of the University for the Session 2023 – 2024 for ME Modular Programmes

	Spell June, 2023 7th Spell for Batch, 2020, 5th Spell for Batch	Spell December, 2023 6th Spell for Batch 2021; 4th Spell for	Spell June, 2024 7th Spell for Batch, 2021, 5th Spell for Batch

	2021, 3rd Spell for Batch 2022 and 1st Spell for New Batch 2023	Batch 2022 and 2nd Spell for Batch 2023	2022, 3rd Spell for Batch 2023 and 1st Spell for New Batch 2024
Normal Admission	24.05.2023		28.05.2024
Registration for old students	01.06.2023 to 05.06.2023	29.11.2023 to 30.11.2023	31.05.2024 to 03.06.2024
Late admission to be allowed by the Director NITTTR, with late fee of `1,000/-	06.06.2023 to 09.06.2023	--	04.06.2024 to 07.06.2024
University Examination for previous batch (two papers)	01.06.2023 to 06.06.2023	12.12.2023 to 20.12.2023	27.05.2024 to 05.06.2024
Commencement o Classes	01.06.2023	01.12.2023	08.06.2024
Teaching	01.06.2023 to 04.07.2023 (34 working days including all Saturday & Sunday)	01.12.2023 to 04.01.2024 (34 working days including all Saturday & Sunday)	08.06.2024 to 11.07.2024 (34 working days including all Saturday & Sunday)
Class Test	05.07.2023	05.01.2024	12.07.2024
End of the spell	05.07.2023	05.01.2024	12.07.2024

Academic Calendar of the University for the Session 2023 – 2024 for ME Regular Programmes)

	First Semester (for new students, Batch 2023 – 25) and Third Semester (for students, Batch 2022 – 24)	Second Semester (for students, Batch 2023 – 25) and Fourth Semester (for students, Batch 2022 – 24)
Normal Admission/ Registration	17.07.2023 to 17.08.2023	02.01.2024 to 05.01.2024
Late admission to be allowed by the Director NITTTR, with late fee of ` 1,000/-	24.07.2023 to 25.07.2023	08.01.2024 to 12.01.2024
Late admission to be allowed by the Vice Chancellor with late fee as per University rules	26.07.2023 to 27.07.2023	-----
Registration	24.07.2022 to 28.07.2023	12.01.2024
Commencement of Classes	01.08.2023	12.01.2024
Teaching	01.08.2023 to 11.09.2023	12.01.2024 to 22.02.2024
First mid-semester tests	12.09.2023 to 14.09.2023	23.02.2024 to 26.02.2024
Teaching	15.09.2023 to 26.10.2023	27.02.2024 to 09.04.2024
Second mid-semester tests	27.10.2023 to 30.10.2023	10.04.2024 to 12.04.2024
Teaching	31.10.2023 to 11.12.2023	15.04.2024 to 24.05.2024
End-semester examinations	12.12.2023 to 20.12.2023	27.05.2024 to 05.06.2024
Commencement of next semester	16.01.2024	01.08.2024

Schedule of End Semester/Spell University Examinations for ME Programmes (both Regular and Modular) is as per approval by Panjab University, Chandigarh (letter No. Misc./A-1/4217 dated 06.05.2023).

- **PIO QUOTA : NO**

Infrastructural Information

❖ **Classroom/Tutorial room Facilities :**

Instructional Area for the existing programme(s)

Particulars	Number of rooms		Carpet area of each room	
	Requirement as per norms	**Available in the institution**	**Requirement as per norms**	**Available in the Institution (Sq.M)**
Class Rooms		12		562
Tutorial Hall		02		105
Seminar Hall		04		312
Drawing Hall (*)		02		250
Computer Centre		01		345
Library		01		330
Laboratories & workshops		27		1462
Other/auditorium		01		300
Total				**3656**

- **In addition, the institute is in the process of completing construction of Lectures Complex of 10 rooms equipped with modern facilities.**

- Central Examination Facility, Number of each: One Big hall & 12 classrooms, seating rooms and capacity of total 360




LIST OF LABORATORIES, MAJOR EQUIPMENT/ FACILITIES AVAILABLE FOR EXPERIMENTAL SET UP:

Engineering Education (Education and Educational Management Deptt.)

Computer Laboratory:

- 19 Computer Systems with internet for M.Tech. Engg. Education students
- 01 Professional LED Display with integrated Touch Screen
- 01 LCD Projector, 01 Overhead Projector
- 01 SPSS Software

Mechanical Engineering (Manufacturing Technology) Deptt.

(Major Equipment of the Laboratories of the Mechanical Engineering Department)

Name of laboratory	Major facilities
CAD / CAM	• 3D Metal Printer (ProX DMP 200) • 3D Polymer Printer (uPrint FDM) • 3D Scanner (Steinbichler COMET) • Flexible Manufacturing System • CNC Milling & Turning Simulator • CAD Workstations – 31 • HP DesignJet T1200 Plotter • Software – ANSYS, COMSOL, SolidWorks, Autodesk Inventor, MDT, CATIA, IDEAS, Delmia, MasterCAM, SolidCAM, ADSTEFAN, Creo, Flexsim, Simufact, Kissoft
Measurements & Metrology	• Setup for condition monitoring system of gears, shafts and bearing • Bearing Condition Monitoring Test Rig • Vibration Analyzer and Accessories; Thermal Imaging Camera • Machine Vision & Inspection System • Eddy Current Flaw Detector • Magnetic Particle Crack Detector • Basic Measuring Instruments
Machine Tool	• CNC Vertical Milling Machine • Piezo Electric 6-Component Dynamometer with accessories • Condition Monitoring System Test and Measurement Equipment • Cryogenic Treatment Equipment • Spark Erosion EDM • Electro Chemical Machine • Lathes; Shaper; Milling Machine; Vertical drill machine • Surface Grinder; Tool and Cutter Grinder • Tungsten Inert Gas (TIG) Welding set • Metal Inert Gas (MIG) Welding set
Materials & Material Testing	• Scanning Electron Microscope • Spectrometer • Potentiostat/galvanostat • Universal Testing Machine – 01 • Digital Rockwell cum Brinell hardness tester • Microhardness tester – 01; • Ultrasonic Flaw Detector • Wear Test Rig – 01 • Scratch tester • Tool maker microscope
Mechatronics	• Electro-Hydraulic Trainer Kit • PLC controlled Electro-Pneumatic Kit with Ladder Diagram software • Electronically Controlled X-Y Table, Conveyer and Rotary Table • Microcontroller based DC Motor Control Trainer • Robotic Manipulator with control and simulation software • DSpace Data Acquisition Board; Brushless DC Motor Control Trainer • Stepper Motor Control Trainer • Trainer Boards for Sensors (Strain Gauge, Ultrasonic, Thermocouple,Pressuere, Gas sensor etc.) • Sensors / Transducers for measuring Pressure, Torque, Flow Rate,Position etc. • Accessories - Oscilloscope, DC Power Supply, Function Generator etc. • Software - Automation Studio, MATLAB with toolboxes, Mathematica

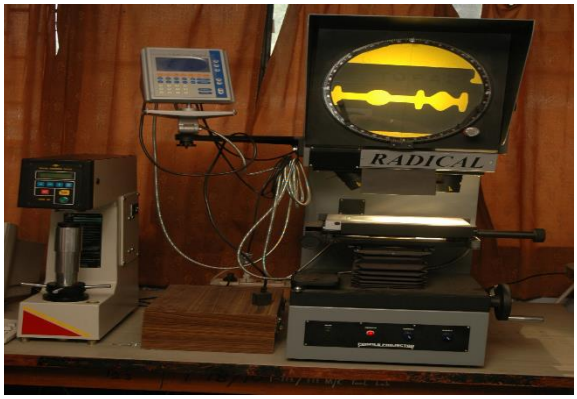
3D Metal Printer

CNC Vertical Milling Machine

Flexible Manufacturing System

CNC Turning & Milling Simulator

Cryogenic Treatment Setup



Civil Engineering (Construction Technology & Management) Department

Name of the Laboratory	Plinth Area (sq. m.)
Computer Applications Lab.	30
Environmental Engg. Laboratory	69
Concrete Laboratory	62
Hydraulics Laboratory	41
Soil Engineering Laboratory	67
Highway Engineering Laboratory	42
Material Laboratory	54
Non Destructive Testing lab.	20

CONCRETE TECHNOLOGY LABORATORY
(List of Major Equipments)

Automatic Compression Testing Machine 3000 kN with Flexural Test attachments, Electronic Universal testing machine (UTE 60T) including Bend & Re-bend Attachments, Compression Testing Machines Electrically operated of capacity 3000 kN each, Hot Air Oven , Water bath, Cement Autoclave, Humidity Cabinet, Pulverizer, Accelerated Curing Tank, Pan Mixer, Muffle Furnace**,** Concrete Penetrometer spring Type, Concrete Permeability Apparatus, Flow Table, Equipment for Self Compacting Concrete (Slump Cone, J-Ring, L-Box, U-Box, V- Funnels), Cement Cube Vibrating machine, Vicat's Mould, le-Chateliers Apparatus, Blaine's Air Permeability Apparatus (Manual & Automatic), Riffler, Slump Cone Apparatus, Compacting Factor Apparatus, Vee-Bee Consistometer , Vibrating table, Bulk density App (3 Lts, 15 Lts, 30 Ltrs) , Pycnometer, Needle vibrator (25 mm & 40 mm), Thickness gauge & Length gauge, Concrete beam moulds (15x15x70 cm & 10x10x50 cm), Cement cube moulds (7.06 cm size), Cement Concrete Cube moulds (10 cm & 15 cm sizes), Sieve Shaker**,** IS Sieves, (Complete sets), Electronic digital Weighing scale Cap.30 kg & 300 Kg)**,** Tile abrasion testing machine, Aggregate Crushing Value Apparatus, Aggregate Impact Value Apparatus, Air Entrainment Meter.

SOIL ENGINEERING LABORATORY
(list of major equipment)

Standard Penetration Test Apparatus, Fully Automatic Triaxial System Cyclic, Permeability Apparatus (constant & Falling Head), Direct Shear Test Apparatus Electronic including software, Consolidation Test Apparatus (electronic), Unconfined compression Testing Machine, Soil Resistivity Meter, Diamond Core Drilling Machine, Core Cutter & Ggrinding Machine, Brazaillian Test Apparatus, Nuclear Moisture Density Gauge, Grouting Machine, Loading Device 50 kN Capacity, Power Mechanical Drill, Sample Extruder, Thermostatically controlled Electric Oven, Field Density Apparatus, Core Cutter Apparatus, Hydrometer Analysis Kit, Pull Out Apparatus, Abbot Compaction Apparatus (Metric), Field Inspection Vane Tester, Proctor needle (Hydraulic type)**,** Pycnometers, Density Bottles, Rapid Moisture Meter, Automatic Compactors, Swell Test Apparatus, Sieve Shaker with Timer, Vicksberg Penetrometer, Shrinkage Limit Apparatus, IS Sieve Sets (Complete).

HIGHWAY ENGINEERING LABORATORY
(list of major equipment)

Pavement Dynamic Cone Penetrometer, Ring & Ball Apparatus ,Flash Point Apparatus, Water Bath, Standard Penetrometer, Marshal Stability Test Apparatus, Aggregate Impact Value Tester, Centrifuge Extractor, Film Stripping Device, Los Angeles Abrasion Testing Machine, CBR Apparatus, Cleveland Flash & Fire Point Apparatus, Automatic Compactor for Bituminous Mixes, Penetration Cone, Storage Sticking Apparatus, Pressure Head Apparatus, Engler Viscometer, Ductility Test Machine, Profilograph, CBR Apparatus (Field Type), Benkelman Beam Apparatus, Hot Air Oven.

Hardness Number Apparatus, Deep Freezer, Bump Integrator, Alignment Meter, Penetrometer, Modified Marshal Stability Apparatus, Laboratory Mixer for Bituminous Mixes, Pressure Aging Vessel, AutoClave, Digital Viscosity Meter.

ENVIRONMENTAL ENGINEERING LABORATORY
(LIST OF MAJOR EQUIPMENTS)

PC Based Double Beam Spectrophotometer, Microprocessor based pH Meter, Digital pH Meter, Microprocessor based Conductivity Meter, Digital Conductivity Meter, Digital Nephlo/Turbidity Meter, Colorimeter, UV/VIS Spectrophotometer, Jar Test Apparatus, Concentration Meter, Ion Chromatograph, Millipore Membrane Filter, Oil and Grease Analyser, Kit for Nitrate, Nitrogen, Kit for Phosphate, Digital Nephlo Turbidity Meter, COD Digestror, Universal Incubator, Rapid Total Coliform Apparatus, Flame Photometer, BOD Trak Apparatus, Arsenic Kit, Luminescent DO Analyser, Oil and Grease Analyser, Sound Level Meter, CO/HC Analyser, Multigas Analyser, High Volume Sampler

NON DESTRUCTIVE/MATERIAL TESTING LABORATORY
(list of major equipment)

Pundit Lab Ultrasonic Testing Instrument, TICO Ultrasonic Instrument, Concrete Test Hammer NR Type, Concrete Test Hammer P Type, Corrosion Analyser, Moisture Meter, Paint Pressure Tester, Scratch Hardness Tester, Flexibility Adhesion Tester, Rebar Locator, DD-130 M Diamond core drilling system, Pipe Testing apparatus, Reversion oil bath, Vicat Softening temp apparatus, Digital Density meter for Sp. Gravity test, Ferroscan system PS200, Accelerated curing tank, Impact resistance testing machine, Load test apparatus, AutoClam Permeability System, MOR Testing Machine, Tile Autoclave, Universal Gauge App for measurement of surface flatness, MHO's hardness scale, Impact testing machine for ceramic tiles, Fully Digital Load Frame System, Coating Thickness Gauge, Microscope, Sample Cutting Machine and Grinding Machine, Pulse Echo Tester, Concrete Surface Resistivity Meter

HYDRAULICS LABORTORY
(list of major equipment)

Bernoullis theorem apparatus, Hydraulic testing pump for pipe Pigmy Current Meter, Differential Manometer, Model of Turbine Pump, Pelton wheel with friction brake. Hydraulics Bench, Stability of floating body apparatus, Orifice Flow Apparatus, Flow over a notch apparatus, Friction loss apparatus, Flow measurement apparatus. Hele Shaw Apparatus, Reynold's No. Apparatus, Flow meter demonstration apparatus.

Non Destructive Testing Lab/Material Laboratory

Moisture Meter (Digital); Core Cutting Equipment; Paint Pressure Tester; Scratch Hardness Tester; Flexibility and Adhesion Tester; RCT Rapid Chloride Test Kit; Corrosion Analysing Instrument, Carbonation Kit; Perfometer for reinforcement details; Concrete test hammer NR type (swiss made); Concrete test hammer pendulum type; Ultrasonic Instrument; Ultrasonic Thickness Gauge; Crack width Meter; Laser Distance Meter.

Surveying/Remote Sensing

GIS Handsets, Total station, Micro-optic, Theodolite, Auto level, Dumpy Level, IDP Level, Vernier Theodolite, some Basic Surveying Instruments, Map tufo software, Terranodal software to be used in conjunction total station.

Computer Science & Engineering Department

LIST OF LABORATORIES, MAJOR EQUIPMENT/FACILITIES AVAILABLE FOR EXPERIMENTAL SET UP:

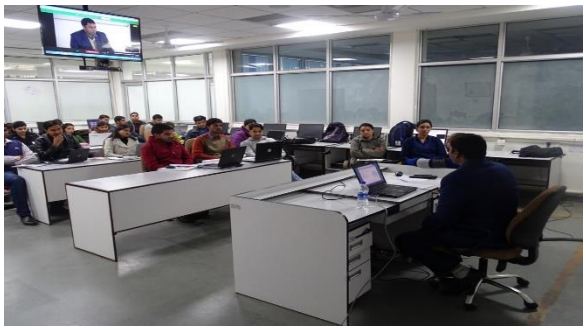
1. **Smart Class Room (Room No. 108)**

   Total System: 21

Make HP600 G4 SFF i7-8700

- Processor: Intel 8th Generation, Core i7-8700(3.2 GHz, 12 MB Cache. 6 Cores), chipset Intel-Q370

- RAM: DDR4, Size 8 GB, RAM Speed 2667 MHz, storage: Hard Disk(GB) 1000,7200 rpm SATA6 GB/s
- Operating System (Pre-Loaded): Windows 10 Professional 64 bit Operating System
- Network Connectivity: 10/100/1000 on board Integrated Gigabit Port
- Display: Monitor Size 21.5", Resolution 1920*1080 pixels



2. M.E. (CSE) Class Room (Room No. 102)

Total System : 25

Make HP400 GI Microtower PC

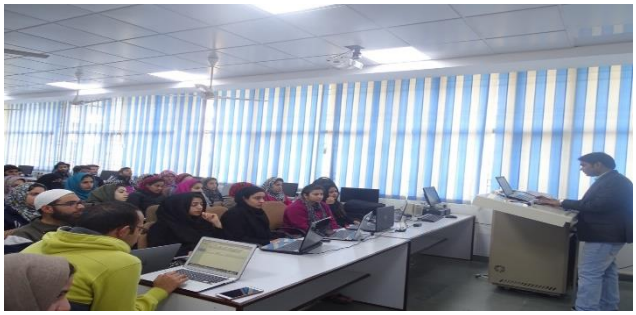
- Processor: Intel Core i7-4790(3.6 GHz, RAM Storage: DDR3, 8 GB, RAM Speed 2667 MHz: Hard Disk 500(GB), SATA Interfaced.
- Operating System (Pre-Loaded): Windows 8.1 64 bit.
- Network Connectivity: 10/100/1000 on board Integrated Gigabit Port
- Display: Monitor Size 18.5", Resolution 1920*1080 pixels

Interactive touch screen with digital podium

- 86" interactive touch screen with individual interface and Android OS Resolution-1895*
- 1066 with Laptop Interface & Desktop Interface, Gooseneck & Wireless Microphone, 300 Watt amplifier.
- Wall Mount and Ceiling Speaker and Controller-VGA in*2, VGA out*2, HDMI in*2, HDMI out*3, LANM RJ-45, Power-12V/3.5 A.

Software

- Ms Office 2016
- Bluemix
- Netsim
- Open Source Os-Ubuntu 18.04
- Open Source Application- Ns2, Xampp, Php, Mysql, Libre Office, Cloudsim, Wireshark, Android Studio, Angular Java, Blender Gimp, Python, R Programming, Scilab



1. CYBER SECURITY LAB (Sponsored by Ministry of DEITY, GOI)

1) Make: HP 406-G1| Qty-03

- Processor Intel, Core i7-4790 (3.6 GHz, RAM & Storage: MHz; Hard Disk (GB) 500, 7200 rrpm SATA 6.10 Gbis DDR 3, Size 8 GB, RAM Speed 2667
- Operating System (Pre-Loaded) System Windows 8/8.1 64 bit Operating
- Network Connectivity 10/100/1000 on board Integrated Gigabit Port
- Display: Monitor Size 18.5", Resolution 1920x1080 pixels

2) Make: HP Elite 8300 Microtower PC | Qty-12

- Processor Intel, Core i5-3470 (3.2 GHz, RAM & Storage DDR 3. S 4 GB RAM Speed 2667 MHz, Hard Disk (GB) 500, 7200 rpm
- SATA 6.10 Gb/s
- Operating System (Pre-Loaded) Windows 8/8.1 64 bit Operating System Network Connectivity: 10/100/1000 on board Integrated Gigabit Port Display Monitor Size 18.5", Resolution 1920x1080 pixels

3) SONY PROJECTOR WIRE AND WIRELESS

- Native Resolution 1024x768 (XVGA), Projection Lamp/Source UHP
- Maximum Resolution to UXGA (1600X1200)
- Input Compatibility VGA SVAGA XGA MAC, Projection Size 30-300"
- Aspect Ratio 4:3 Input VGA HDMI Mini Jack (Audio) x1
- Network and Remote Fully Functional Remote Control WLAN connectivity with Power Supply-220- 240V 50Hz AC, light weight

2. Computer and Network Support Center

- OTDR and Accessories
- Digital Multimeters, LAN Testers, Power Meters, Source Meters
- Punching Tools, Climping Tools, Connectors
- UTP Rolls, Wireless Access Points, Splicing Machine
- Essential Tools for Assembly and Disassembly of PCs

3. Server Room (Room No.114)

- HP ProLiant DL580 Server
- DELL POWER Xeon R520 - Server for LINUX/OPEN SOURCE OPERATING Systems
- IBM X3650 SERVER; IBM X3850 SERVER
- IBM BLADE SERVERS; Fortigate UTM and FortiAnalyzer
- Emerson Integrated Smart Rack Cabinet SC-26-AC
- Cisco ASR 1000 Router and Multiplexer TJ1210
- Managed HP ProCurve L3 Switch with 24 Giga Ports (1U)

4. Research and Innovation Lab

Total System: 4

- **DELL Optiplex 980 i5 3.20 GHz ,4GB RAM,500 Hard Drive**
- **16 U Rack, Switch Catalyst 2960**
- **Cisco Access Point**

- **Entire department including labs and classrooms with 30 minutes UPS backup followed by DG Set**

List of Softwares

Sr. No.	Particulars
1	**Qualnet 4.5 (Research Licence with Base Libraries)**
2	**Sql Server 2008**
3	**Visual Studio 2008 Professional(15 Users), Adobe CS4 (10 Users), Office 2007 Professional (20 User)**
4	**Jaws Software (01 license)**
5	**IBM CE Enablement Programme with IBM Bluemix**
6	**Microsoft Office Standard 2016 (200 licenses)**
7	**Statistica Ultimate Academic Pact (UAP) version 12.7 (50 Licenses)**

In addition to above softwares department uses open source/free software as per need.

Electrical Engineering (Instrumentation & Control) Department

Laboratories associated with Department

Sr. No.	Name of the Laboratory	Plinth Area (m^2)
1.	Electrical Machines Laboratory	100
2.	Power Electronics Laboratory	50
3.	Instrumentation & Control Laboratory	50
4.	Virtual Instrumentation Laboratory	50
5.	Embedded System Laboratory	40
6.	SCADA and PLC Laboratory	25
7.	Advanced Virtual Instrumentation Laboratory	25
8.	Advanced Power Electronics Laboratory	25

ELECTRICAL MACHINES AND SCADA & PLC LABORATORY

Cut view Model (Electric Motor)' DC Series Motor 2HP 220V, 1000/1500rpm; PSG 3 KVA Alternator 1500 RPM, S.N. 146058; PSG Slipring Ind. Motor 5 HP, 3 Ph; 1440 RPM; PSG DC Generator 220V, 18A, 1500RPM; DC Motor 5 HP, 220V, 1450 RPM; DC Generator 2 KW, 220V, 1450 RPM; DC motor BTH 3 HP, 220V, 1450 RPM – 2Nos; 3 PH; AC Ind. Motor 3 PH, 440V, 3HP, 1420 RPM; AC Motor 4/2 HP 440V, 1390/750 RPM; Gautam Unwound Motor 5HP 1420 RPM, 440V; Transformer 230/12V 50 VA, S.no. 74627; Transformer 230/12V, 100 VA, S.no. 74857; Transformer 230/12V, 150W, S.no 74522-23 – 2 Nos; Motor

1 Phase 1/12 HP, 5000RPM, S.No. TC 1539; Motor 1 Phase 1/15HP, 1275RPM, S.No 12762; Motor 1 Phase 1/5 HP, 930 RPM, S.No H68376, Motor 1 Phase 1/8 Hp, 930 RPM, S.No. 5J2391; DC Starter 5HP S.No 1305/75, 1310/75 – 2Nos; DC Motor 5 HP, 220V, 1450RPM, S.no 42252; Alternator, 5KVA, 400/230V, 3Ph;1500RPM, 12389; WolfDrill m/c 1/4", S.N. B 148711; Universal Motor 1/8 HP 230V, S.No SMM 18131; Armature Growler Elak Make; Meco Digital tong Tester Model 2200; Clipon Type Power Factor Meter, Riken; Clipon Type AC Wattmeter 20/200KW, Riken; Analog Clamp Meter Model 2103, Japan Make; Digital Insulation Tester DT 920; LUX Meter LUTRON Make, Model 101; IEEC Universal Digital AC Drive; Induction Motor 3 Phase 5 HP, 440 volt, Cont, Rating coupled with DC Shunt Gen, 220V, 18A; Digital Multimeter Rishabh 16S & S1232 Module; Infrared Non Contact Thermometer Raytek / MT4; PLCP-R Thyristor Controlled Rectifier S.no. 592K, Process Logic Controller for the Meas. of temp., Non contact type Earth Resistance tester, Luminary Parameter Analyser, Electrical Motor Design Software, AC Servo Trainer, DSO Agilent, Mipower software, Hp laser jet Pro 400 MFP, Advanced Programmable Controller Model PC55/ML , LJ Create , UK Make;One Nos., Bytronic make PLC & module;1 Nos., Ladder Logic Software;1Nos, PC-45 PLC Trainer;1 Nos. Opal RT Real Time Electrical System Simulator; Grid Simulator

POWER ELECTRONICS AND ADVANCED POWER ELECTRONICS LABORATORY

Dimmer Type l5D, Electric Blower Plus Suction Attachment;, Aplab Model 3131, 15Mhz Dual Trace CRO Sr No 487/2196; Aplab Model 3131, 15 MHz Dual Trace CRO Sr No 288/132; Aplab Regulated Power Supply Model No 7112 30V/0-2Amp-4 Nos;, Component Storage Cabinet;, Regulated DC power supply single channel agronic make model 92B; Solderless Bread Board Built in power supply, Model GFI-27; 3 Phase 6 SCR Bridge Firing Unit - Model TPSF; Steppler Motor Control with Motor ET-Thyset-23MR; Scientific LCRQ Bridge MODEL 6018 (Sr. No 89344); Hameg 40 MHz Digital Storage Oscilloscope HM 407 Sr. No. Z-7139; Clamp On power Meter Model 4500 Make MECO; UPS 625 VA-2 Nos, Function generator Model MX 9810. Multi Transducer Model M-42, Make Rishab - 2 Nos; Accelerometer & Signal Conditioning Module Type MV-410 (B), Operating System Window XP Professional Edition - 2 N0s; UPS 500VA Offline Interactive (Wipro Make) - 9 Nos; DSP Trainer Kit model WZ-DSPORT-5.0 & Compiler ADSP21060, Software Dasy Lab DLABPD6-02, Single user Latest Version, ADD ON CARD PCI 1710; WICE 8052 IN-Circuit Emulator; Switch HUB D link 8 port 10/100 Mbps, Partition Magic Software; V-ELEQ Virtual electrical equipment simulator; Live wire design and simulating& Analyzing software ; 20MHz Dual Trace CRO power scope model ST 224; CADDO Micro controller based CRO, Model CADDO-803. Digital logic trainer controller Model; LACS-DLTC; Computer PC, Printer H1536, handholdmultimeter fluke-9 Nos; D C Shunt Motor; Bench Grinder Type-6; bench Vice; Energy Lab Hybrid System; Computers Desktop HP 8300; HP DC-7000 Series Desktop computer; Solar PV Training & Research Kit; Advanced Control Education Kit 1104 :DS1104 –R&D Controller Board CLP 1104 Connector LED panel SW: CDP Control Dev Package Mictotec C cross complier with USB dongle One Nos; DSP Based AC Induction motor drive; VPE Spartan DSP FPCA Controller; 3Phase 11 Level Cascaded H Bridge; 0.25 HP Three Phase AC Motor Setup with QEP Sensor; Professional LED Display with integrated touch screen; Globus Electronics Lectern Model; Globus Visual Presenter.

INSTRUMENTATION & CONTROL LABORATORY

LVDT Based Displacement transducer DX 25;2 Nos. ,Strain guage based displacement transducer DXS 25;2 Nos., DC Dual output power supply Pacific 305D;1 Nos., DC Single output power supply Pacific ;2 Nos., Aplab signal generator 2014;1 Nos., Load cell LU1-50K;1 Nos.,3 ½ digit LCD Autoranging multimeter 9A;4 Nos.,3 ½ digit LCR Meter MECO;2 Nos.,3 ½ digit LCR Meter MECO;2 Nos., Digital Insulation Tester DIT90 MECO;2 Nos., Digital Multimeter, DM-454 MOTWANE;1 Nos.,Bread Board;1 Nos., Scientech-Oscilloscope 201FC;1 Nos., Calibration Bench with dial guage for calibration of LVDT's/strain guage based transducers 0-25mm ;4 Nos., Process Control Trainer ICON-97;1 Nos., Portable Load Management System ALM 1;1 Nos. ADAM 4520ADAM-4018ADAM-4080DPWR-243;Scientific function generator HM-5030-2;1 Nos., DIGIAC 1750 transducer trainer;1 Nos., Direct Digital Control;1 Nos., Analog Control system;1 ,Nos., Process Control Unit + Level sensor PCU2L;1 Nos., UPS 1KVA Offline;1 Nos., Carrier make window AC ;4 Nos., Voltage Stablizer 4KVA;4 Nos., UPS 500VA APC AVR 500;2 Nos., VCL-1, Virtual Control Software;1 Nos., Nos., Elletronica veneta software;1 Nos., UNITOOL-CAD software;1 Nos., PCB Mounting Hall effect transformer HTP-25HTP-50HTP-100S;PSCAD4 software;1 Nos., HUB 16 port 100 mbps micronet;1 Nos., Laser Printer Samsung ML2150;1 Nos., Visualization Software;1 Nos., Transducer Parameter Analyser Model IA-TPA;1 Nos.,PLECS-Software;1 Nos.,PCC4 PCI Interface Card for PCU rig;1 Nos., PCUSIM – PCU ring simulator 10 user;1 Nos., Photonics CAD Optical Transmission Software ;1 Nos., Data Aqs. System DAS – MG01;01 Nos.,4' X 6 ' Projection Screen BRAUN make;01 Nos., BPE 3 KVA Online UPS system ;02 Nos., HP Compaq LAPTOP NX 6320 , IGB RAM (total);01 Nos., Desktop PC HP Dx 2280 (Classroom);01 Nos., HP Desktop DX 7380 ;04 Nos., HP CLJ 2600N Printer;01 Nos., Laptop HP 6710b (3 yrs warranty);01 Nos., HP LJ 3005 DN Laser Printer;01 Nos., Wipro Desktop PC ;04 Nos., SONY

VPL-CX76 LCD Projector;01 Nos., Digital Visual Presenter , DP 6650 A;01 Nos., HP DC7000 Desktop ;08 Nos., Dell Latitude E5500 Laptop;03 Nos., Mathworks Suite with Tool Boxes;35 user Nos., MS office 2007 Paper License ;08 Nos., Emerson Online UPS 3 KVA ;01 Nos., HP DC 7000 Series Desktop Intel Vpro Config.;10 Nos., APC UPS 3 KVA Online ;01 Nos., Computer Notebook i5 with windows 7CNU 1452x6x;01 Nos., UPS 3 KVA (APC);One Nos., HP Laser Jet Printer Model LJ P 1606DN;Three Nos., Transducer & Instrumentation Trainer with data Acquisition of Control System consisting of :Transducer & Instrumentation Trainer , Model D1750, LJ Create, UK Make, Data Acquisition of Control System ,Model D1760, LJ Create, UK Make Two Nos., Matlab software :Upgradation of Existing LC no. 829355 & 829356(Part A One DVD) Offer for New Add ON as per Ann 1 (Part B);One Nos. One Nos., Bio Medical System with EMG Sensor and Acknowledge Software with all accessories MYo Trace 400, 4 Channel System, Blue tooth with MR-XP (Clinical Application) S.No.04210037; One Nos., Process Control Trainer (Technology) Model: PCT-100, Make : Bytronics(UK); One Nos.

VIRTUAL INSTRUMENTATION AND ADVANCED VIRTUAL INSTRUMENTATION LABORATORY

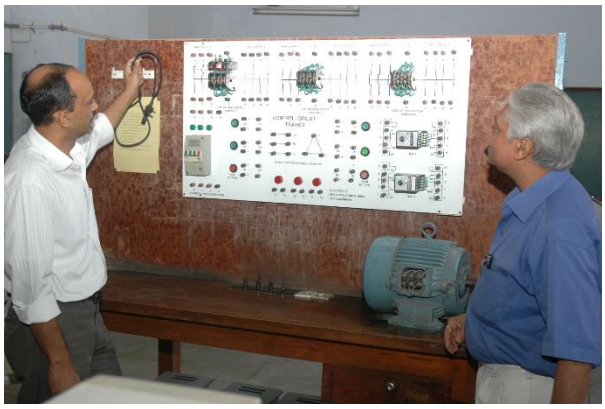
Bench Top 4 ½ digit multimeter MECO 45P;1Nos. ,'PROTEK' 3 ¾ Digit Digital Multimeter, 506;4Nos20MHZ CRO 201CT;1 Nos.Hand Held Scope meter;1 Nos., PCI DAQ board PCI-703;1 Nos., PCI DAQ board PCI-730;1 Nos., PCI 6013 DAQ card PCI 6014 DAQ card, Labview 7 full Development system;1 Nos.,NI PCI -6220 data Acquisition Board;1 Nos., LABVIEW Software Batch M64X59285;01 Nos.NI Elvis / PCI 6251 Bundle Batch HA 6389911;01 Nos., NI ELVIS II and other supporting modules, Labview AcademyNI ELVIS II + Circuit Design Bundle LabVIEW Academy Course Preparation Materials;01 Nos., LabVIEW Academy Student Workbook for Student use with LV Academy Programme. ;01 Nos., Quanser QNET Mechatronics Sensor Board for NI ELVIS Acd Only);01 Nos., Vernier Bioinstrumentation Sensor Kit for NI ELVIS II ;01 Nos., Quanser QNET DC motor control board for NI ELVIS (Acad Only);01 Nos., Quanser QNET Rotary inverted Pendulum Bd for NI ELVIS (Acad Only)Quanser QNET HVAC Trainer Board for NI ELVIS (Acad Only);01 Nos., Freescale NI ELVIS Microcontroller Prototype Board;01 Nos.,Vernier Green Engineering Sensor Kit for NI ELVIS II ;01 Nos., Emona ETT-211 FOTEX-Fiber Optic Comm Trainer for NI ELVIS;01 Nos., NI Developer Suite consisting of :NI Lab View Deptt L/C upgrade to Labview 2012,Ni Compact Data Aq. & Multisensor Platform consisting of :8 Slot Compact DAQ Chassis & following modules – 9178, Analog Input-9223,Analog Output (Voltage)-9269,Differential Analog Input-9223,Universal Analog Input with Signal Conditioning for Bridge based sensors-9219,Thermocouple Analog Input-9214,RTD Analog Input-9217, J Type Thermocouple and RTD Sensors,24b Bridge Analog Input-9219,Digital I/O and High Speed Sourcing DO, Sinking DI Modules -9403,SSR Module-9485,Power Supply and Accessories, NI Embedded Control platform for green engg. & Medical Device prototyping,Integrated Chassis & FPGA based Compact RIO Controller-9025,Power Supply & Acceories.; 01 Nos, Ni Multisim 12.0 (35user) Circuit Design Platform Education Edition;01 Nos., Measuring Instruments : a) Power Quality Measuring Modules230Vrms Voltage Input Module (1 quantity)-9225,5A Current Input Module (1 quantity)-9227,Relay Module (1 quantity)-9481,b) Ethernet and Wireless Data Monitoring ModulesNI WSN Platform (1 Gateway and 2 WSN AI Nodes),NI Wi-Fi Carrier (1 quantity) NI Ethernet Carrier (1 quantity),Power Supply and Accessories, Desktop Computers HP 8300MT Core i5,Win8 Pro09 Nos.,Uniline 3 KVA Online UPS Backup 30 Min.02 Nos., NI 6244 ModuleNI 9227 Module, NI 9234 Module, IMI Industrial 2 pin Accelerometer,IMI Ind. Acc . Meter Cable, HP Business Desktop 25 Nos.

EMBEDDED SYSTEM LABORATORY

Microprocessor traning kits: i) 8 bit upkit (VMC 8506) 2 Nos, ii) Power supply 2 Nos, iii) Lab manual 2 Nos, iv) Hardware Manual 2 Nos, v) 16 bit upkit (VMC 8603) 2 Nos, vi) Power supply 1 Nos, vii) Hardware Manual 1 Nos, viii) Lab. Manual 1 Nos, 16 Bit Microprocessor Kit 2 Nos, TMS 320C31 based DSP starter Kit, 2 Nos, TMS 320C54 based DSP starter Kit, 2 Nos, KEIL PK51 Software 1 Nos, VAB DSP Education Software: A) HSWN0467 VAB for Infinity (C6711 Version) 1 Nos, B) TMSDS 320606711 (C6711DSK Bundle) 1 Nos, Microcontroller Simulation Software Package Model Proteus VSM 1 Nos, Radio Frequency Application Board 1 Nos, GSM Mobile Application Board 1 Nos, Universal Microcontroller Development Package 2 Nos, Separate Interfacing Application Module 2 Nos, PSIM- Simulation Software for Power Elex. & Motor Control 1 Nos, Universal Programmer ,48 Pin, USB Based with user Mannual 1 Nos, Embedded Development Package with Tools for 8,16 & 32 bit Processor 1 Nos, Un Scrambler Software 1 Nos, Universal FPGA/CPLD Development System 1 Nos, FPGA Strarter Pack Model EB940 1 Nos, Computer-HP 8300 MT CORE I5 WIN 8PRO ITEM No. 33 IN HP DGS & D RC 1 Nos, 8051 Based Micro- Controller Kit with optional Switch Mode Power Supply 3 Nos, FTIR Spectrometer, MODELk8002AA 1 Nos.


SERVO DRIVE TRAINER
CPU
SIEMENS


PROCESS RIG



Electronics & Communication Engineering

Laboratories of the Department:

1. Digital Signal Processing & Soft Computing Laboratory
3. Computer Networking Laboratory
4. Communication Engineering Laboratory
5. Embedded System Laboratory
6. CAD & VLSI Laboratory

List of Major Equipment/Facility available for Experimental Set-up:

Digital Signal Processing & Soft Computing Laboratory:
Data Acquisition Card & Software, Fuzzy Logic Controller, Micro-controller – Intel 8051 Based Systems, PIC Micro-Controller Board, AVR Micro-controller Trainer Kit, Digital Signal Processor Kit ADSP-2181, Digital Signal Processor – Texas Instruments TMS-32C6711, PAL Logic Design Training Kit, Programmable Logic Controller Module, Bus Based Designer System Board, MATLAB, Visual DSP, Circuit Maker, VHDL.

Computer Networking Laboratory:
PCs, Hub, Wireless LAN, Access Points, Switch, Router

Communication Engineering Laboratory:
ISDN Trainer Exchange, Microwave Spectrum Analyzer, EPABX System, Plain Paper FAX Machine, Fuzzy Logic Controller, Hand-held Scope Meter, Communication Trainer Kits, Microwave Test Benches, Fiber Optics Trainer Kits, Antenna Trainer Kits with all Practical Antennas. Blue Tooth Board, GSM Board, Virtex-4 FPGA it, AVR Development Board.

Embedded System Laboratory:
SLC 500 Trainer, Micrologix 1000 Trainer, Micrologix 1200 Trainer, Computer Systems (20), Embedded Kits, Spartan (R) 6FPGA (04), Multi-media Projector, Advanced VLSI Proto Board (02).

CAD & VLSI Laboratory:
VLSI Hard Development System, Computer Systems, Digital Multi-meter, HP Color Printer, HP Scanner, 20 systems with server(Linux) and Window Softwares etc. Virtex-4 FPGA Kit, AVR Development Board. Display Plazma LG, Spartan 3-A, DSP 1800A, Sparatan 3ER Kit, Laptop Soni, LCD Projector, Credence software which is a specialized VLSI software.

Networking Lab

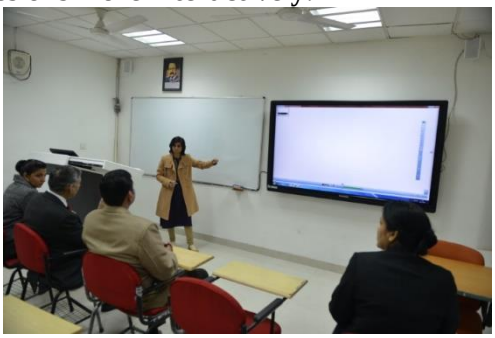
Communication Lab

DSP and Soft Computing Lab

Embedded System Design Lab

VLSI Lab

The department has recently established **a smart classroom with digital podium and Interactive LED Panel to teach the classroom sessions more interactively**.



"Electronics Service Centre"

It is a nodal agency to cater the repair and maintenance of defective electronic equipment, power supplies, SMPS, UPS, Test and measuring instruments of Northern Polytechnic colleges. Nearly 100 students from Engineering colleges per year are trained at this centre in Embedded System Design, Power supply fabrication and Testing, PCB Fabrication and testing, Electronics experiments, fabrication and testing etc. ME students of Electronics and Communication Engineering are also developing some projects like Power Failure buzzer, Presuure sensor based attendance system, battery charger etc. Recently the department established a new laboratory for PCB Fabrication where the students fabricate the PCBs on their own.

PCB Fabrication Lab **Electronics Circuit designing LAB**

❖ Computer Centre Facilities : (As on 01.09.2022)

S. No.	Particulars	Availability	
1.	**No. of Computer Terminals**	**709** (distributed among various labs. of the instt.)	
2.	**Hardware Specification**	Servers with Storage - Dual Xeon or Above Pentium Dual , i3, i5, i7; IVth Generation & above	**10 Servers** in Server Room **709 Desktop PC's**
		Laptops	**112**
3.	**No. of Terminals on LAN/WAN**	All terminals (as entire institute is on wired and wireless network)	
4.	**Relevant Legal Software**	Application Software: **80**	STAAD III, Strap, Primavera, Conmix, Auto Civil, AutoCAD,Geo4, Adobe CS4, Visual Studio 2008 Prof., Office 2007 Professional, Jaws Software, Microsoft Office Standard 2016, IBMCE Enablement Programme with IBM Bluemix, NetSIM etc.
		System Software: **709**	All systems have been procured with preloaded Windows operating system
5.	**Printers**	**114 Printers**	
6.	**Internet Accessibility (in Kbps & hrs)**	**1 Gbps NKN Connectivity**	

❖ Library Facilities :

Total area of the library : **10,000 sq. ft.** (approx. 849.70 sqm carpet area)
Seating capacity of the library : **150**
Reprographic facility (yes / No) : **Yes**
Working hours of library : **9.00 a.m. to 5.30 p.m. (Monday to Saturday)**

Library Networking facility (Yes/No) : Yes; the whole library is connected through LAN and wi-fi. The library is fully computerized using the web–base LMS LIBERTY. All the in-house library operations are computerized and can be accessed through Web-OPAC as well as through internet. The database of the library is installed on blade server based on window Server 2007.

Usage data of the library : **600 to 700 books** have been issued and consulted by students and faculty
(in terms of books issued to the faculty & students etc.)

Annual library budget : **35 lakhs**
(% of annual student fee collected):

Number of Library books/ Titles/Journals available : **Lib. Books = 50086** (as on 03.07.2024)

Print Journals : **22**
Newspapers : **03**
Magazines : **12**
e-books : **578**
E-resources : **11**

e-Library facilities : **Journals are accessed in the Library. Journals are IP configured.**

❖ **Auditorium/Seminar Halls/Amphi/ETV Studio : Available**

❖ **Cafeteria : Available**

Inner view of Mess

❖ **Indoor Sports Facilities** : **Available**
(Badminton, Table Tennis, Carom, Chess)

❖ **Outdoor Sports Facilities** : **Available**
(Lawn Tennis, Volleyball, Hockey, Football & Cricket)

❖ **Gymnasium Facilities** : **Available**

❖ **Facilities for disabled** **: Available**

The institute has a Centre for Physically Challenged Persons and conduct training programmes for persons working in the area of disability.

❖ **Any other Facilities (Extra-curricular): Available**

(Cultural Programmes, Celebrations of Important Days & as per University calendar also, Soft Skill Development Facilities)

10.16 Hostels

PG Hostel Block

Three Storeyed Hostel Block

- **Boys Hostel** : ONE new hostel blocks for Boys (160 Rooms); Two Floors in Three Storeyed Hostel and one Floor in Two Storeyed PG Hostel
- **Girls Hostel** : One new hostel for Girls (43 Rooms) One Floor in Three Storeyed hostel and one Floor in Two Storeyed PG Hostel

New Hostel Block for Boys

New Hostel Block for Girls

❖ **Medical & other Facilities at Hostel : Available**

10.17 Academic Sessions

- **Examination System, Year/Semester** :
  (Every student has to appear in two periodic tests as decided by the institute & must qualify the same before appearing in the end semester university examination scheduled to be held in June and December every year)
- **Period of Declaration of Results** : Semester-wise as per Panjab University, Chandigarh guidelines

10.18 Counseling/Mentoring

- **Career Counseling** : Does not Apply
- **Medical Facilities** : Available
- **Student Insurance** : Does not Apply

10.19 Students Activity Body

- **Cultural Activities** : Available
  (Cultural Programmes, Celebrations of Important Days and as per University calendar also)
- **Sports Activities** : Available
- **Literary Activities** : Available
- **Magazine/Newsletter/Journal** : Available
- **Technical Activities/TechFest** : Available (students participate in Tech Fest in and around city)
- **Industrial Visits/Tours** : Available
- **Alumni Activities** : Available

10.20 Name of the Transparency Officer : Dr. AB Gupta

: Approved vide Office Order No. 2023/04 dated 05.04.2023

- **Designation** : **Professor& Head, CDC**
- **Phone Number with STD CodE** : 0172-2759658
- **Fax Number with STD Code** : 0172-2791366
- **E-mail** : abgupta@nitttrchd.ac.in

10.21 Name of the Nodal Officer for RTI : Dr. Niraj Bala

: Approved vide Office Order No. 101 dated 25.06.2024

- **Designation** : **Professor & Head, EDIC and Nodal cum Central Public Information Officer**
- **Phone Number with STD Code** : 0172-2759577
- **Fax Number with STD Code** : 0172-2791366
- **E-mail** : nirajbala@nitttrchd.ac.in

10.22 Name of the Information Officer for RTI : Dr. Niraj Bala

: Approved vide Office Order No. 101 dated 25.06.2024

- **Designation** : **Professor & Head, EDIC and Nodal cum Central Public Information Officer**
- **Phone Number with STD Code** : 0172-2759577

- **Fax Number with STD Code** : 0172-2791366
- **E-mail** : nirajbala@nitttrchd.ac.in

10.23 Name of the Assistant Information Officer for RTI : Dr.Harsh Vardhan Samalia

: Approved vide Office Order No. 101 dated 25.06.2024

- **Designation** : **Associate Professor, EDIC and Associate Dean (ORG)**
- **Phone Number with STD Code** : 0172-2759673
- **Fax Number with STD Code** : 0172-2791366
- **E-mail** : harsh@nitttrchd.ac.in

10.24 Name of the First Appellate Authority : Dr. Pankaj Sharma

: Approved vide Office Order No. 101 dated 25.06.2024

- **Designation** : **Professor, Applied Sciences**
- **Phone Number with STD Code** : 0172-275751
- **Fax Number with STD Code** : 0172-2791366
- **E-mail** :pankaj@nitttrchd.ac.in

10.25 Committee of PIOs/FAAs with rich experience in RTI to identify Frequently Sought Information under RTI

: Approved vide Office Order No. 101 dated 25.06.2024

- **Professor (Dr.) AB Gupta as Transparency Officer**
- **Professor (Dr.) Pankaj Sharma as First Appellate Authority**
- **Professor (Dr.) Niraj Bala as Nodal Officer-cum-CPIO**
- **Associate Dean, (F &S)**

10.2610.26 Consultancy Committee for advice on Suo-Motu Disclosure in reference to the Audit of Proactive Disclosures under RTI Act, 2005 as per Framework of Transparency Audit

: Approved vide Office Order No. 101 dated 25.06.2024

- **Professor (Dr.) AB Gupta as Transparency Officer**
- **Professor (Dr.) Pankaj Sharma as First Appellate Authority**
- **Professor (Dr.) Niraj Bala as Nodal Officer-cum-CPIO**
- **Associate Dean, (F &S)**