


# Appendix 10

## Mandatory Disclosure (Part 2)

(As on 27.05.2025)


### 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	B.E. (Civil Engg.), M.E. Civil (Environmental) Engg., Ph.D. (Env. Risk Analysis)			
5.	Work Experience	Teaching	26 yrs. In various institutions		
		Industry	2.5 years in Construction Industry		
		Research	32 yrs. (including research conducted during the teaching at various institutions)		
		Others (Administrative)	Since March 2023 Director at NTTTR Chandigarh; Approx. 4 years as Dean of Resources & Alumni Affairs at IIT Roorkee; 4 years as Director in BoDs of IIT Roorkee Development Foundation; and 3 years as Head, CTRANS, IIT Roorkee, etc.		
6.	Area of Specialization	Environmental Impact and Risk Assessment, 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			
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	161	Number of Research Papers		102
			Publication in National Journals		
			Publication in International Journals		
			Presented in Conferences/Seminars		
			Technical Reports/Monographs/Manuals		46
10.	Major Projects Carried out	04 Major Research Projects (1 sponsored by Max Planck Society, Germany; 1 by Indo-UK Consortium, 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 and Vikas Pruthi; Invention: Method for Production of Biodiesel from Chlorella SP, Patent no.: 551791, Application no.: 201811001749, Date of filing: 16/01/2018, Date of Grant: 01/10/2024, Patentee: IIT Roorkee.			
12.	Technology Transfer	-			
13.	Number of Books Published with Details	12 Books + 32 Book Chapters + 3 Book Reviews	List of a few selected books: 1. <b>Effective Solutions to Pollution Mitigation for Public Welfare.</b> IGI Global. Gezerman, Ahmet Ozan, Corbacioglu, Burcu Didem, Gurjar, Bhola R. (Eds.), 2018. 2. <b>Pollution Exposure to Humans &amp; Its Assessment.</b> IGI Global; Jat, R., Sahu, V. and Gurjar, B. R. (2018). 3. <b>Sludge Management.</b> CRC Press (Taylor & Francis Group); Gurjar, B. R., Vinay K. Tyagi, 2017. 4. <b>Environmental Science and Engineering</b> (Series of 12 Vols.), Studium Press LLC, USA; Gurjar, B. R. (Chief Editor), 2017. 5. <b>Biofuels: Technology, Challenges and Prospects.</b> Springer. Agarwal, A.K., Agarwal, R.A., Gupta, T., Gurjar, B.R. (Eds.), 2017. 6. <b>Adapting to Climate Change: Technologiues, Perceptions, Education, and Perspectives.</b> In: <i>Climate Change Modeling, Mitigation and Adaptation.</i> ASCE Publication, Reston, Virginia, USA; Ciumasu, I. M., Costica, M., Secu, C. V., Gurjar, B. R. and Ojha, C. S. P. (2013). 7. <b>Sludge Treatment and Disposal.</b> CRC Press; Gurjar, B. R. (2001). 8. <b>Enterprise Support System in India.</b> Wheeler Publishing, A Div. of AH Wheeler & Co. Ltd., New Delhi; Saini, JS, BR Gurjar, BS Rathore, 2001 9. <b>Entrepreneurship Opportunities in Info-Tech Industry: An Indo-Global Perspective.</b> In: <i>Entrepreneurship and Small Business.</i> Rawat - Publications, Jaipur; Gurjar, B. R. and Mohan, M. (1998). 1		

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	32 yrs.
		Research	03 yrs. (Independent); 33 yrs. along with teaching; <b>Post-Doctoral Research at University of Utah, USA</b>
		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	<b>At Graduate Level:</b> 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; <b>At Post Graduate Level:</b> 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	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> 19
			Publication in <b>International Journals</b> 90
			Presented in <b>Conferences/Seminars</b> 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 On lien to CPSC Manila		
4.	Educational Qualification	BE, MTech. (Civil Engg.); MBA; Ph.D. (Mgt.)		
5.	Work Experience	Teaching	39 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	



<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Prof. (Dr.) SS Banwait</b>	
<b>2.</b>	<b>Designation</b>	Professor, Mechanical Engineering	
<b>3.</b>	<b>Date of Joining the institution</b>	19.06.1991	
<b>4.</b>	<b>Educational Qualification</b>	BE (Mechanical Engg.); M.Tech., Ph.D.	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>36 years</b>
		<b>Research</b>	<b>34</b>
			<b>35 years along with teaching</b>
		<b>Industry (Administrative)</b>	<b>04 years</b>
<b>6.</b>	<b>Area of Specialization</b>	Manufacturing Technology	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level and Post Graduate Level</b>	At Postgraduate Level: CAD/CAM & Robotics, Design for Consumer; Computer Based Production Management	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>108 completed</b>
			<b>04 in progress</b>
		<b>Ph.D. Dissertation</b>	<b>08 completed</b>
			<b>02 in progress</b>
<b>9.</b>	<b>Research Publications</b>	<b>92</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b>
			<b>05</b>
			Publication in <b>International Journals</b>
			<b>30</b>
			Presented in <b>Conferences/Seminars</b>
			<b>57</b>
<b>10.</b>	<b>Projects Carried out</b>	MODROB Project; Bio-Energy Technology & Business Solution for UK & India	
<b>11.</b>	<b>Patents</b>	<b>Nil</b>	
<b>12.</b>	<b>Technology Transfer</b>	<b>Nil</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>Three</b>	1. 'Design & Manufacturing', Birla Publications, Delhi. 2. 'Refrigerant & Psychometric Charts & Tables', Birla Publications, Delhi. 3. ISTE Continuing Education Module on "Engineering Design".




<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Prof. (Dr.) AB Gupta</b>	
<b>2.</b>	<b>Designation</b>	Professor & Head, Education and Educational Management Department	
<b>3.</b>	<b>Date of Joining the institution</b>	03.10.1986	
<b>4.</b>	<b>Educational Qualification</b>	B.E. (Mech.) M.E. (Mechanical Engineering), Ph.D.(Mechanical)	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>38 years</b>
		<b>Research</b>	<b>-</b>
		<b>Industry</b>	<b>01 year</b>
		<b>Others (Administrative)</b>	<b>-</b>
<b>6.</b>	<b>Area of Specialization</b>	Curriculum Development, Manufacturing Technology	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level and Post Graduate Level</b>	<b>At undergraduate Level:</b> Curriculum Development; <b>At Post Graduate level:</b> Manufacturing Technology, Curriculum Development	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>03 completed</b>
		<b>Ph.D. Dissertation</b>	<b>-</b>
<b>9.</b>	<b>Research Publications</b>	<b>36</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> <b>03</b>
			Publication in <b>International Journals</b> <b>03</b>
			Presented in <b>Conferences/Seminars</b> <b>30</b>
<b>10.</b>	<b>Projects Carried out</b>	Performance of Electrodes on EDM Machine; Flexibility in Industry Need analysis, curriculum development & evaluation Development of MOOC on ' <b>Curriculum Implementation</b> ' and launched on SWAYAM portal from 27.09.2018 to 21.11.2018	
<b>11.</b>	<b>Patents</b>	<b>Nil</b>	
<b>12.</b>	<b>Technology Transfer</b>	<b>Nil</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>Two</b>	1. Manufacturing Technology; New Age International Publishers, Delhi. 2. A Practical Handbook for Mechanical Engineers, Galgotia Publishers, Delhi




<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Prof. (Dr.) Sanjay Kumar Sharma</b>	
<b>2.</b>	<b>Designation</b>	Professor, Civil Engineering	
<b>3.</b>	<b>Date of Joining the institution</b>	13.02.1986	
<b>4.</b>	<b>Educational Qualification</b>	ME (Civil Engineering); Ph.D. (Civil Engineering)	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>38 years</b>
		<b>Research</b>	<b>37 years along with teaching</b>
		<b>Industry</b>	<b>01 year</b>
		<b>Others (Administrative)</b>	<b>10 years as HoD, Civil Engg., 02 years as Professor Incharge, CPDC and Centre for Clean Technologies &amp; Sustainable Development</b>
<b>6.</b>	<b>Area of Specialization</b>	Environmental Engineering, Building Repair, Retrofitting and Rehabilitation, Irrigation & Hydraulics, Public Health Engg., Green Technologies	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level and Post Graduate Level</b>	<b>At Postgraduate Level:</b> Environmental Engineering, Construction of Hydraulic Structures, Building Maintenance, Green Building & Services, Rural Construction Technology	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>80 completed 10 in progress</b>
		<b>Ph.D. Dissertation</b>	<b>07 completed 08 in progress</b>
<b>9.</b>	<b>Research Publications</b>	<b>125</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> <b>52</b>
			Publication in <b>International Journals</b> <b>33</b>
			Presented in <b>Conferences/Seminars</b> <b>40</b>
<b>10.</b>	<b>Projects Carried out</b>	<b>30</b> Consultancy & Research projects in areas of Repair and Rehabilitation of Structures and Environmental Engineering and Green Technologies	
<b>11.</b>	<b>Patents</b>	<b>01</b> (Applied for)	
<b>12.</b>	<b>Technology Transfer</b>	<b>Nil</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>Five</b>	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.






<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Prof. (Dr.) Hemant Sood</b>	
<b>2.</b>	<b>Designation</b>	Professor & Head, Civil Engineering	
<b>3.</b>	<b>Date of Joining the institution</b>	02.12.1988	
<b>4.</b>	<b>Educational Qualification</b>	B.E. (Civil Engineering) Hons., ME (Highways); Ph.D.	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>36 years</b>
		<b>Research</b>	<b>22 years along with teaching</b>
		<b>Industry</b>	<b>1½ years</b>
		<b>Others (Administrative)</b>	<b>04 years as HoD, Civil Engineering</b>
<b>6.</b>	<b>Area of Specialization</b>	Concrete Technology; Pavement Design, Bridge Engg.	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Under Graduate Level:</b> Concrete Technology <b>At Postgraduate Level:</b> Pavement Design, Bridge Engg., Transportation Engg.	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>50 completed 10 in progress</b>
		<b>Ph.D. Dissertation</b>	<b>02 completed 03 in progress</b>
<b>9.</b>	<b>Research Publications</b>	<b>69</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> <b>15</b>
			Publication in <b>International Journals</b> <b>35</b>
			Presented in <b>Conferences/Seminars</b> <b>19</b>
<b>10.</b>	<b>Projects Carried out</b>	200 (Consultancy projects)	
<b>11.</b>	<b>Patents</b>	<b>Nil</b>	
<b>12.</b>	<b>Technology Transfer</b>	<b>Nil</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>Fifteen</b>	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


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	34 years		
		Research	33 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	36 years	
		Research	35 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 2 <sup>nd</sup> March to 27 <sup>th</sup> 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	


<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Prof. (Dr.) Maitreyee Dutta</b>	
<b>2.</b>	<b>Designation</b>	Professor, Information Management & Emerging Engineering Department	
<b>3.</b>	<b>Date of Joining the institution</b>	04.06.2002	
<b>4.</b>	<b>Educational Qualification</b>	ME in Electronics; Ph.D. (Engg. & Tech.)	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>27 years</b>
		<b>Research</b>	<b>22 years along with teaching</b>
		<b>Industry</b>	<b>-</b>
		<b>Others (Administrative)</b>	<b>22 years (Administrative along with teaching)</b>
<b>6.</b>	<b>Area of Specialization</b>	Digital Signal Processing, Advanced Computer Architecture, Data Warehousing and Mining, Digital Image Processing, IoT Security	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Postgraduate level:</b> Digital Signal Processing, Advanced Computer Architecture, Data Warehousing, Software Testing & Quality Management, Business Intelligence & Data Mining, Soft Computing	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>145 completed</b>
		<b>Ph.D. Dissertation</b>	<b>11 completed 04 in progress</b>
<b>9.</b>	<b>Research Publications</b>	<b>189</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> <b>03</b>
			Publication in <b>International Journals</b> <b>120</b>
			Presented in <b>Conferences/Seminars</b> <b>77</b>
<b>10.</b>	<b>Projects Carried out</b>	08 completed	
<b>11.</b>	<b>Patents</b>	<b>Nil</b>	
<b>12.</b>	<b>Technology Transfer</b>	<b>Nil</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>04</b>	<ol style="list-style-type: none"> <li><b>Iris Recognition:</b> J. Daugman's Principle. LAP Lambert Academic Publisher; ISBN 978-3330017399.</li> <li><b>Nimble: An Intergrid for Weather Forecasting.</b> LAP Lambert Academic Publisher; ISBN 978-3659896316.</li> <li>Proceedings of Second International Conference on <b>Communication, Computing &amp; Networks</b> – Lecture Notes on Networks &amp; System (Springer), Vol. 46.</li> <li>Proceedings of International Conference on <b>Internet of Things Inclusive Life</b> – Lecture Notes on Networks &amp; System (Springer), Vol. 116.</li> <li>Books Published: 04 <ol style="list-style-type: none"> <li>Internet of Things for Indoor Air Quality Monitoring Authors: Saini, Jagriti, Dutta, Maitreyee, Goncalo <a href="https://www.springer.com/gp/book/9783030822156#aboutBook">https://www.springer.com/gp/book/9783030822156#aboutBook</a></li> <li>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. <a href="https://link.springer.com/book/9783030964856">https://link.springer.com/book/9783030964856</a> (SCOPUS Indexed)</li> <li>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</li> <li>IoT enabled Computer-Aided Systems for Smart Buildings. Eds., Goncalo Marques, Jagriti Saini, Maitreyee Dutta. ISBN: 978-3-031-26685-0, URL: <a href="https://link.springer.com/book/10.1007/978-3-031-26685-0">https://link.springer.com/book/10.1007/978-3-031-26685-0</a></li> </ol> </li> </ol>




S. No.					
1.	Name	Prof. (Dr.) SS Dhama			
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	33 years		
		Research	28 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	<ul style="list-style-type: none"><li>Setting up of Simulation Centre of Excellence funded by ABB, Bengaluru</li><li>Setting up of CAD Laboratory under MODROBS (in PEC, Chandigarh)</li></ul>			
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( <a href="http://www.ipindia.nic.in/writereaddata/Portal/IPOJournal/1_442_1/Part1.pdf">http://www.ipindia.nic.in/writereaddata/Portal/IPOJournal/1_442_1/Part1.pdf</a> )			
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	30 years	
		Research	30 years along with teaching	
		Industry	One Year	
		Others (Administrative)	08 years as HoD, Rural Development 02 Years as HoD, EGMT	
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, Environment Impact Analysis, Research Methodology, Organic Farming, Sustainable Living		
8.	Research Guidance	Master's Dissertation	07 completed - in progress	
		Ph.D. Dissertation	01 completed 06 in progress	
9.	Research Publications	126	Number of Research Papers	
			Publication in National Journals	07
			Publication in International Journals	04
			Presented in Conferences/Seminars	110
			Chapters in Book	10
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	Five	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 (FN)		
4.	Educational Qualification	B.Tech. (ECE), M.Tech. (Eltx.), Ph.D. (Engg.)		
5.	Work Experience	Teaching	28 years	
		Research	28 years along with teaching	
		Industry	-	
		Others (Administrative)	06 years, 9 months as HoD, Department of Computer Science & Engineering; 02 years as Associate Dean; 01 year and 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	88 completed 03 in progress	
		Ph.D. Dissertation	14 Awarded 07 in progress	
9.	Research Publications	135	Number of Research Papers	
			Publication in National Journals	04
			Publication in International Journals	38
			Presented in Conferences/Seminars	93
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	05 (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	38 years		
		Research	21 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	<ul style="list-style-type: none"><li>• Design of Electrical Installation for providing LED lights at various Green Belts/Parks/Parking, Markets etc. for Municipal Corporation, Chandigarh;</li><li>• Preparation of Educational Video Films for the NTC programme in Electrical Installation &amp; maintenance Work for a Technical School in Nigeria;</li><li>• Training the Trainers of Technical School in Nigeria in Electrical Installation &amp; maintenance Work during 14 April to 01 May, 2015 at NITTTR, Chandigarh;</li><li>• 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.</li></ul>			
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		



<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Prof. (Dr.) Rajesh Mehra</b>	
<b>2.</b>	<b>Designation</b>	Professor and Head, Curriculum Development Department	
<b>3.</b>	<b>Date of Joining the institution</b>	15.03.1996	
<b>4.</b>	<b>Educational Qualification</b>	B.Tech. (ECE) from NIT, Jalandhar; ME (ECE) and Ph.D. (ECE) from PU, Chandigarh	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>29 years</b>
		<b>Research</b>	<b>17 years along with teaching</b>
		<b>Industry</b>	<b>-</b>
		<b>Others (Administrative)</b>	5 years (2 years as Head of ECE Department and 5 years as Head of CDC Department), Hostel Warden (Male), Chief Hostel Warden
<b>6.</b>	<b>Area of Specialization</b>	VLSI & Signal Processing, PLC & SCADA, Renewable Energy, Innovative Curriculum Design	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Postgraduate Level:</b> Advanced DSP, VLSI Design	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>110 completed 15 in progress</b>
		<b>Ph.D. Dissertation</b>	<b>03 in progress 01 submitted</b>
<b>9.</b>	<b>Research Publications</b>	<b>525</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b>
			Publication in <b>International Journals</b>
			Presented in <b>Conferences/Seminars</b>
<b>10.</b>	<b>Projects Carried out</b>	<b>01</b>	
<b>11.</b>	<b>Patents</b>	<b>Nil</b>	
<b>12.</b>	<b>Technology Transfer</b>	<b>Nil</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>One</b>	<ol style="list-style-type: none"> <li>1) Book "PLC &amp; SCADA – Theory &amp; Practice", Laxmi Publications, Weblink: <a href="https://www.amazon.in/PLCs-SCADA-Practice-Rajesh-Mehra-ebook/dp/B07568SYLK">https://www.amazon.in/PLCs-SCADA-Practice-Rajesh-Mehra-ebook/dp/B07568SYLK</a></li> <li>2) Book Chapter "Current Perspectives and Advancements of Perovskite Photovoltaic Cells " 2020, DOI: <a href="https://doi.org/10.1007/978-981-15-1483-8_8">https://doi.org/10.1007/978-981-15-1483-8_8</a></li> <li>3) Book Chapter "An Extensive Review on Organic Light-Emitting Diode for Energy-Saving and Eco-friendly Technology", 2019, DOI: <a href="https://doi.org/10.1007/978-981-13-6772-4_78">10.1007/978-981-13-6772-4_78</a></li> <li>4) Book Chapter "Automatic magnification independent classification of breast cancer tissue in histological images using deep convolutional neural network" 2019, DOI: <a href="https://doi.org/10.1007/978-981-13-3140-4_69">10.1007/978-981-13-3140-4_69</a></li> <li>5) Book Chapter "Reconfigurable area and speed efficient interpolator using DALUT algorithm" 2011, DOI: <a href="https://doi.org/10.1007/978-3-642-17878-8_13">10.1007/978-3-642-17878-8_13</a></li> <li>6) Book Chapter "FPGA implementation of high speed pulse shaping filter for SDR applications" 2010, DOI: <a href="https://doi.org/10.1007/978-3-642-14493-6_23">10.1007/978-3-642-14493-6_23</a></li> </ol>




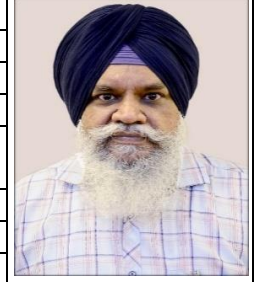
<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Prof. (Dr.) Sandeep Singh Gill</b>	
<b>2.</b>	<b>Designation</b>	Professor and Head, Information Management & Emerging Engineering	
<b>3.</b>	<b>Date of Joining the institution</b>	27.03.2019	
<b>4.</b>	<b>Educational Qualification</b>	BE (E&EC) (Hons.); M.Tech (ECE), MBA (Marketing/Systems & Control), Ph.D. (ECE)	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	27 years
		<b>Research</b>	07 (along with Teaching)
		<b>Industry</b>	4 years
		<b>Others (Administrative)</b>	2 years as Head, ECE Department; First Appellate Authority (RTI)
<b>6.</b>	<b>Area of Specialization</b>	VLSI CAD, Soft Computing Techniques, Engineering Management	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level and Post Graduate Level</b>	<b>At Graduate Level:</b> Engineering Management, Total Quality Management <b>At Post Graduate Level:</b> VLSI Physical Design, Engineering Design & Project Management	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>110</b>
		<b>Ph.D. Dissertation</b>	<b>2 (submitted) 5 (Pursuing)</b>
<b>9.</b>	<b>Research Publications</b>	<b>175</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> <b>03</b>
			Publication in <b>International Journals</b> <b>56</b>
			Presented in <b>Conferences/Seminars</b> <b>113</b>
			Technical Proceedings <b>03</b>
<b>10.</b>	<b>Projects Carried out</b>	<b>04</b>	
<b>11.</b>	<b>Patents</b>	<b>01 (Applied For)</b>	
<b>12.</b>	<b>Technology Transfer</b>	<b>-</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>05</b>	<ul style="list-style-type: none"> <li>Carbon Nano Tube-Based Sensor Design for NEMS/ MEMS Applications by Devi, R &amp; Gill, SS (2020). In Raj, B., Khosla, M., &amp; Singh, A. (Ed.), Major Applications of Carbon Nanotube Field-Effect Transistors (CNTFET) (pp. 37-53). IGI Global. <a href="http://doi:10.4018/978-1-7998-1393-4.ch003">http://doi:10.4018/978-1-7998-1393-4.ch003</a></li> <li>Impact of Spacer Engineering on Performance of Junction-less Transistor. Lambert Academic Publishing, ISBN No. 978-613-9-45556-0, 2019.</li> <li>CMOS SRAM Design and Analysis of Low leakage and High Speed SRAM Cell. Lambert Academic Publishing, ISBN No. 978-3-659-86111-6, 2016.</li> <li>Contributed Essay on "Marketing in 21<sup>st</sup> century," in book, "Business Management-Parameters and perspectives," edited by Dr. Ajay Prasher, Medallion Press, 9788188252152, 2005.</li> <li>Contributed Chapter on "Management Information Systems (MIS)" in "Handbook of Management", Pragati Prakashan, 2005.</li> </ul>




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	39 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, Green 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	21 completed 05 in progress
		Ph.D. Dissertation	01 completed 04 in progress
9.	Research Publications	101	Number of Research Papers
			Publication in National Journals 08
			Publication in International Journals and Book Chapters 24
			Presented in Conferences/Seminars 69
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, Patent 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	26 years		
		Research	21 years along with teaching		
		Industry	0.5 year		
		Others (Administrative)	16 years along with teaching (Head, Mechanical Engg., Dean R & I at NITTTR; Dean Academics, Dean PG & Research, QIP Coordinator, Nodal Officer Academic (TEQIP-II), Member Secretary Academic Council, etc. at Guru Nanak Dev Engg. College 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	119 Completed; 05 in progress		
		Ph.D. Dissertation	32 Completed; 06 In progress		
9.	Research Publications	Total = 753 Scopus ID: 55641527000; ORCID: 0000-0001-8251-8943	Number of Research Papers		
			Publication in International Journals	507	
			Publication in National Journals	30	
			Presented in Conferences/Seminars	216	
10.	Projects Carried out	27			
11.	Patents	07			
12.	Technology Transfer	-			
13.	Number of Books Published with Details	33	<ul style="list-style-type: none"><li>• 'Investigations for machining characteristics of titanium alloys by USM', 2010, Investigations for machining characteristics of titanium alloys by USM, 2010, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-8383-9894-5</li><li>• Application of cryogenic treatment for machining cost reduction: A case study, 2010, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-8433-7108-7, (Co-author: Kamaljit Singh).</li><li>• Process capability of rapid manufacturing for plastic components, 2010, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-8433-8735-4, (Co-author: Balpreet Singh Thind).</li><li>• Pattern development for hand tool die with fused deposition modelling, 2011, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-8433-8735-4, (Co-author: Harish Kumar Garg).</li><li>• Some investigations for investment casting applications, 2012, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-8484-8861-2, (Co-author: Sunpreet Singh).</li><li>• Effect of pressure on casting properties in cold chamber die casting, 2012, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-659-12721-2, (Co-author: Rahul Kapoor).</li><li>• Effect of some parameters on properties of hot chamber die casting, 2012, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-659-13087-8, (Co-author: Harvir Singh).</li><li>• Effect of shape factor, slurry layers and temperature in IC, 2012, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-659-13560-6, (Co-author: Jagdeep Singh).</li><li>• Plastic component replicas by silicon moulding process, 2012, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-659-14138-6, (Co-author: Vipul Sharma).</li><li>• Maintenance of blast furnace section: A case study of Steel plant, 2012, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-659-27047-5, (Co-author: Navneet Saini).</li><li>• Maintenance planning and control of boiler section of thermal plant: A case study, 2012, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN-NR.: 978-3-8465-3661-2, (Co-author: Sumeet Sohal).</li><li>• ABS replicas in investment casting applications, 2013, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN 978-3-659-42853-1, (Co-author: Munish Kumar Gupta).</li><li>• Replication of FDM-based patterns via vacuum moulding, 2013, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN 978-3-659-42852-4, (Co-author: Gurinder Singh).</li><li>• Experimental investigations for development of MMC, 2013, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN 978-3-659-31335-6, (Co-author: Ranvir Singh).</li><li>• Tribological behaviour of dual and triple particle size Al<sub>2</sub>O<sub>3</sub>, 2013, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN 978-3-659-27305-6, (Co-author: Kanwalpreet Sahni).</li><li>• Comparison of investment casting prepared for bio-medical application, 2013, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN 978-3-659-43338-2, (Co-author: Gurpartap Singh).</li><li>• Investigations for casting of Al-SiC metal matrix composite, 2013, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN 978-3-659-43702-1, (Co-author: Jaswinder Singh).</li><li>• Investigations for RCM implementation in thermal power plant, 2016, Lambert Academic Publishing AG &amp; Co. KG, Saarbrücken, Germany, ISBN 978-620-0-00877-0, (Co-author: N.S. Bhangu, G.L. Pahuja).</li><li>• Additive Manufacturing: Applications and Innovations Part of the Manufacturing Design and Technology Series (Series Editor: J. Paulo Davim), CRC Press, Taylor &amp; Francis, 2018.</li><li>• Bio-Manufacturing (Co-Editor: Chander Parkash, Sunpreet Singh, Seeram Ramakrishna, B.S. Pabla, Sanjeev Puri), Springer, 2019, ISBN 978-3-030-13950-6 ISBN 978-3-030-13951-3 (eBook), <a href="https://doi.org/10.1007/978-3-030-13951-3">https://doi.org/10.1007/978-3-030-13951-3</a>.</li></ul>		




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		>17 years
		Research	16 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. 8 months as Associate Dean (Faculty & Staff)	
6.	Area of Specialization	Materials Science and Engineering (Thin Films, Nanomaterials, Electronic Materials, Energy Materials, Polymeric Materials, Glasses, and Ceramics. <b>INDIAN KNOWLEDGE SYSTEM</b>		
7.	Subjects teaching at Under Graduate Level & Post Graduate Level	<b>At Undergraduate Level:</b> Physics – I & II, Materials Science, Engineering Physics-I, Physics Lab – I & II, Engineering Physics Lab-I, Basic Engineering Physics <b>At Postgraduate Level:</b> Sensors & End effectors, Nanoelectronics, Nano Analysis and Characterization Methods, Smart Materials Processing and Applications, Electronic Materials and Devices Lab. PhD Course Work: Materials Characterization Techniques; Research and Publication Ethics		
8.	Research Guidance	Master’s Dissertation	-	
		Ph.D. Dissertation	07 Completed; 01 Submitted; 02 in Progress	
9.	Research Publications	Total = 195	Number of Research Papers	
		Scopus Author Id=35746163500	Publication in International Journal	180
			Publication in National Journals	
			Presented in Conferences/Seminars	17
10.	Projects Carried out	2 (SERB-DST = 01, HIMCOSTE-DST = 01), UGC DAE CSR (01) ongoing		
11.	Patents	01 Granted, 01 published		
12.	Technology Transfer	Nil		
13.	Number of Books Published with Details	05 Books 17 Chapters	<b>Books</b> 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) 3) Spinel Ferrite Materials: Fundamentals, Progress, and Applications, ISBN: 9780443217425 (Co-editor) 4) MANUSCRIPT TO PUBLICATION: Mastering the Art of Scientific Writing and Publishing in Top-Tier Journals, ISBN-13:979-8311140225 5) PEN TO PUBLISH: Mastering the Art and Business of Writing Your Book, ISBN-13: 979-8310013186  <b>Book Chapters: 17</b> (Co-authored)	



S. No			
1.	<b>Name</b>	<b>Prof. (Dr.) Niraj Bala</b>	
2.	<b>Designation</b>	Professor & Head, Entrepreneurship Development & Industrial Coordination	
3.	<b>Date of Joining</b> the institutio	10.08.2020	
4.	<b>Educational Qualification</b>	Ph .D. (Mechanical Engg.); M.E. (Industrial Materials and Metallurgy); BE (Mech. Engg.)	
5.	<b>Work Experience</b>	Teaching	27 years
		Research	07 years (part time)
		Industry	-
		Others (Administrative)	Head, EDIC department (3 years); Chairperson: Library Committee (3years); Chairperson: ICC Committee (2 years)
6.	<b>Area of Specialization</b>	Entrepreneurship, Entrepreneurship Development, Patenting, Business Startup, Skill Promotion and Rural Development, Industrial Coordination, Manufacturing processes and Surface Engineering	
7.	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Undergraduate Level and At Postgraduate Level:</b> Technology Management, 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.	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>31 Completed 04 In Progress</b>
		<b>Ph.D. Dissertation</b>	<b>09 Completed 02 In Progress</b>
9.	<b>Research Publications</b>	<b>Total = 149</b>	Number of Research Papers
			Publication in <b>International Journals</b> (SCI = 38 and 39 in Non-referred Journals)
			Publication in National Journals
			Presented/published in Conferences/Seminars
10.	<b>Projects Carried out</b>	<b>3 Projects:</b> a) "Portable Solar Powered Thermoelectric Refrigerator cum Heater" by IET R&D Cell, Technical Department the Institution of Engineers (INDIA), b) "Design and Development of Magnesium Metal Matrix Composites by Stir Casting Technique" under Research Promotion Scheme (RPS) by AICTE New Delhi, 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.	
11.	<b>Patents</b>	<b>01</b> Granted in 2019 (Erosion Corrosion Resistant Cold Spray Coatings for Boilers Ni-20CRTiCRe)	
12.	<b>Technology Transfer</b>	<b>Nil</b>	
13.	<b>Number of Books Published with Details</b>	<b>02</b>  Book Chapter s: <b>(06)</b>	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	Er. 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	39 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	

<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Er. Parmod Kumar Singla</b>	
<b>2.</b>	<b>Designation</b>	Associate Professor, CDC	
<b>3.</b>	<b>Date of Joining the institution</b>	01.08.1985	
<b>4.</b>	<b>Educational Qualification</b>	BE Civil Engg., ME Civil (Irrigation & Hydraulics); Ph.D. (pursuing)	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>39 years</b>
		<b>Research</b>	<b>31 years along with teaching</b>
		<b>Industry</b>	<b>-</b>
		<b>Others (Administrative)</b>	<b>06 years as Faculty Incharge, Administration</b>
<b>6.</b>	<b>Area of Specialization</b>	Civil Engg., Appropriate low cost Technology and Curriculum Development, Communication Skills and Personality Development	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Post Graduate level:</b> Civil Engg., Appropriate Technology and Curriculum Development	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>14 completed</b>
		<b>Ph.D. Dissertation</b>	<b>-</b>
<b>9.</b>	<b>Research Publications</b>	<b>82</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b>
			Publication in <b>International Journals</b>
			Presented in <b>Conferences/Seminars</b>
<b>10.</b>	<b>Projects Carried out</b>	About 90 Curriculum Design/review projects, besides many Rural Development & other projects	
<b>11.</b>	<b>Patents</b>	<b>Nil</b>	
<b>12.</b>	<b>Technology Transfer</b>	More than 20 technologies	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>Eight</b>	<ol style="list-style-type: none"> <li>1. Curriculum Development for Polytechnics, Chandigarh: NITTTR, 1999 (co-author).</li> <li>2. English &amp; Communication Skills – 1, Chandigarh: Abhishek Publishers, 2005 (co-author).</li> <li>3. English &amp; Communication Skills – 2, Chandigarh: Abhishek Publishers, 2005(co-author).</li> <li>4. Text Book on English &amp; Communication Skills – 1 for Punjab), Chandigarh: Abhishek Publishers, 2012 (co-author).</li> <li>5. Text Book on English &amp; Communication Skills – 2 for Punjab), Chandigarh: Abhishek Publishers, 2012 (co-author).</li> <li>6. English and communication skills-3, Chandigarh: Abhishek Publishers, 2008 (co-author).</li> <li>7. Applied Mechanics, Chandigarh: Abhishek Publishers, 2009 (co-author).</li> <li>8. Basics of Management, Abhishek Publishers, 2012 (co-author).</li> </ol>





<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Dr. Suresh Kumar Gupta</b>	
<b>2.</b>	<b>Designation</b>	Associate Professor, Department of Curriculum Development	
<b>3.</b>	<b>Date of Joining the institution</b>	01.02.1988	
<b>4.</b>	<b>Educational Qualification</b>	B.E. (Civil Engg.); M.E. (Structures); Ph.D. (Engg.)	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>36 years</b>
		<b>Research</b>	<b>30 years along with teaching</b>
		<b>Industry</b>	-
		<b>Others (Administrative)</b>	-
<b>6.</b>	<b>Area of Specialization</b>	Civil Engineering; Curriculum Development	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Postgraduate level:</b> Advanced Structural Analysis; Curriculum Development	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	-
		<b>Ph.D. Dissertation</b>	-
<b>9.</b>	<b>Research Publications</b>	<b>27</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> <b>15</b>
			Publication in <b>International Journals</b> <b>-</b>
			Presented in <b>Conferences/Seminars</b> <b>12</b>
<b>10.</b>	<b>Projects Carried out</b>	<b>92</b> Nos. Curriculum Design/Revision of Diploma/Certificates Programmes <b>05</b> Research Projects	
<b>11.</b>	<b>Patents</b>	<b>Nil</b>	
<b>12.</b>	<b>Technology Transfer</b>	<b>Nil</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>Two</b>	1. Curriculum Development for Polytechnics (Co-author); 2. Curriculum Innovations in Technical & Vocational Education. (Co-editor), Chandigarh: Abhishek Publications, 2010

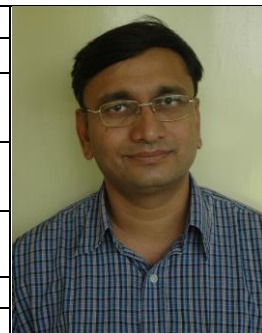


S. No.				
1.	Name	Mrs. Rama Chhabra		
2.	Designation	Associate Professor, Education & Educational Management		
3.	Date of Joining the institution	04.09.1992		
4.	Educational Qualification	ME (Chemical Engineering)		
5.	Work Experience	Teaching	33 years	
		Research	02 year	
		Industry	01 year	
		Others (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	Er. 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	26 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	Er. 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	27 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			







<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Dr. (Mrs.) Ritula Thakur</b>	
<b>2.</b>	<b>Designation</b>	Associate Professor, Electrical Engineering	
<b>3.</b>	<b>Date of Joining the institution</b>	31.05.2006	
<b>4.</b>	<b>Educational Qualification</b>	ME (Electrical), Ph.D. (Electrical Engg.)	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>21 years</b>
		<b>Research</b>	<b>18 years along with teaching</b>
		<b>Industry</b>	-
		<b>Others (Administrative)</b>	-
<b>6.</b>	<b>Area of Specialization</b>	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	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Undergraduate Level:</b> Basic Electrical Engineering, Generation of Electrical Power, Electrical Engineering Materials, Microprocessors, Electric Drives, Electrical Energy Utilization, FACTS Devices; <b>At Postgraduate Level:</b> Measurement Sciences, Industrial Instrumentation, Microprocessors and Microcontrollers, Microcontroller based Embedded Systems, Smart Grid Technologies, IoT based Industrial Automation	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>91 completed 10 in progress</b>
		<b>Ph.D. Dissertation</b>	<b>01 completed 03 in progress</b>
<b>9.</b>	<b>Research Publications</b>	<b>137</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> <b>06</b>
			Publication in <b>International Journals</b> <b>92</b>
			Presented in <b>Conferences/Seminars</b> <b>51</b>
<b>10.</b>	<b>Projects Carried out</b>	<b>Nil</b>	
<b>11.</b>	<b>Patents</b>	<b>Nil</b>	
<b>12.</b>	<b>Technology Transfer</b>	<b>Nil</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>01</b>	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		
4.	Educational Qualification	M. Tech. (ECE) Ph.D. (ECE)		
5.	Work Experience	Teaching	24.5 years	
		Research	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, Wearable/Flexible Antennas, Soft Computing, Digital Signal Processing,		
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	Completed: 72 in progress: 16	
		Ph.D. Dissertation	Completed: 05 in progress: 03	
9.	Research Publications	Total = 163	Number of Research Papers	
			Publication in National Journals	03
			Publication in International Journals	60
			Presented in Conferences/Seminars	100
10.	Projects Carried out	04 (as a Team member/Coordinator)		
11.	Patents	01 (Published)		
12.	Technology Transfer	Nil		
13.	Number of Books Published with Details	07	<div><div>1.</div><div>Balwinder Singh Dhaliwal and M. S. Malhi, <i>Digital Electronics</i>, Kalyani Publishers, 2007, Ludhiana, India. ISBN No. 978-81-272-4759-1</div></div> <div><div>2.</div><div>Balwinder Singh Dhaliwal, J. Kaur and G. Kumar, <i>Basic Electronics Engineering and Information Technology</i>, Kalyani Publishers, 2012, Ludhiana, India. ISBN No. 978-93-272-1886-2.</div></div> <div><div>3.</div><div>G. Singh and Balwinder Singh Dhaliwal, <i>Deploying Sensor Nodes using Bacterial Foraging Optimization: Network Layout Methodology</i>, LAP LAMBERT Academic Publishing, Germany, 2012. ISBN No. 978-38-484-3261-5.</div></div> <div><div>4.</div><div>Balwinder Singh Dhaliwal and S. K. Josan, <i>Digital Electronics</i>, Kalyani Publishers, Ludhiana, India, 2012. ISBN No. 978-93-272-2880-9.</div></div> <div><div>5.</div><div>Parampal Singh, and Balwinder Singh Dhaliwal, <i>Design, Optimization of FIR Filter Using Hybrid SIMBO-GA Algorithm</i>, LAP LAMBERT Academic Publishing, Germany, 2017. ISBN No. 978-3-659-80234-8</div></div> <div><div>6.</div><div>Rupinder Singh, Balwinder Singh Dhaliwal, Shyam Sundar Pattnaik, (eds.), <i>3D Printing of Sensors, Actuators, and Antennas for Low-Cost Product Manufacturing</i>, CRC Press, Taylor &amp; Francis Ltd., February, 2023. ISBN 9781032046808, eBook ISBN 9781003194224, DOI: <a href="https://doi.org/10.1201/9781003194224">https://doi.org/10.1201/9781003194224</a> (hard and eBook)</div></div> <div><div>7.</div><div>Balwinder S. Dhaliwal, Suman Pattnaik, Shyam Sundar Pattnaik, <i>Fractal Antenna Design using Bio-inspired Computing Algorithms</i>, Bentham Science Publishers Pte. Ltd. Singapore, June 2023, <a href="https://doi.org/10.2174/97898151363571230101">https://doi.org/10.2174/97898151363571230101</a>. (hard and eBook)</div></div>	


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	26 years	
		Research	14 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	


S. No				
1.	Name	Dr. Ashok Kumar		
2.	Designation	Associate Professor, Applied Science		
3.	Date of Joining the institution	19.11.2019 as Associate Professor		
4.	Educational Qualification	M.Sc. (Physics); Ph.D. (Material Science)		
5.	Work Experience	Teaching	12 years (after Ph.D.)	
		Research	14 years (after Ph.D.)	
		Industry	----	
		Others (Administrative)	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	
6.	Area of Specialization	Nanotechnology enabled energy harvesting and storage materials/ devices, <b>Indian Knowledge System</b>		
7.	Subjects teaching at Under Graduate Level & Post Graduate Level	<b>At Undergraduate Level:</b> Physics-I & II; Physics Lab-I; Physics Lab-II <b>At Postgraduate Level:</b> 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		
8.	Research Guidance	Master's Dissertation	18 Completed	
		Ph.D. Dissertation	05 Completed 04 in Progress	
9.	Research Publications	Total = 72 (SCI 60, SCOPUS 07, UGC/AICTE (01), Others 07)	Number of Research Papers (SCI)	
			Publication in National Journals SCI (01), Others 02	03
			Publication in International Journals SCI-47, SCOPUS-06, UGC/AICTE-01, Others-05	72
			Presented in Conferences/Seminars	--
10.	Projects Carried out	02 completed (SERB-DST, CSIR), 01 ATAL FDP; 01 QIP-FDP, UGC DAE CSR (01) ongoing		
11.	Patents	Nil		
12.	Technology Transfer	Nil		
13.	Number of Books Published with Details	01/10	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)	


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	18 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 <b>On lien to NIT Hamirpur</b>		
4.	Educational Qualification	B.E. (Civil), M.E. (Civil), PhD (Earthquake Engineering)		
5.	Work Experience	Teaching	17 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	<b>At Undergraduate Level:</b> Building Materials, Building Construction and Drawing, Earthquake Resistant Design of Structures  <b>At Postgraduate Level:</b> 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	Er. 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	24 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	Dr. 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		24 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	21 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	22 years	
		Research	20 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		

<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Dr. Amit Goyal</b>	
<b>2.</b>	<b>Designation</b>	Assistant Professor, Civil Engineering	
<b>3.</b>	<b>Date of Joining the institution</b>	05.06.2006	
<b>4.</b>	<b>Educational Qualification</b>	BE (Civil); ME (Structures); Ph.D. (Earthquake Engg., from IIT, Roorkee)	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>18 years</b>
		<b>Research</b>	<b>14 years along with teaching</b>
		<b>Industry</b>	<b>½ year</b>
		<b>Others (Administrative)</b>	<b>-</b>
<b>6.</b>	<b>Area of Specialization</b>	Civil (Structures), Earthquake Engineering, Structure Dynamics, Masonry Structures	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Undergraduate Level:</b> Subject related to Structures TOS, DESIGN, R.C.C, T.O.S LAB, F.M <b>At Postgraduate Level:</b> Structures, Tall Buildings, Rural Housing, NDT Techniques, Low cost constructional materials	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>02 completed</b>
		<b>Ph.D. Dissertation</b>	<b>-</b>
<b>9.</b>	<b>Research Publications</b>	<b>21</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> <b>03</b>
			Publication in <b>International Journals</b> <b>02</b>
			Presented in <b>Conferences/Seminars</b> <b>16</b>
<b>10.</b>	<b>Projects Carried out</b>	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	
<b>11.</b>	<b>Patents</b>	<b>01 (under process;CINIITR0000100024CCRN04)</b>	
<b>12.</b>	<b>Technology Transfer</b>	Ferro cement Technology, Earthquake Resistant Housing, low cost housing, floating rafters, water filtration system	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>One</b>	'Empowering the Disabled' (authored by Saini, JS & Goyal, A), Chandigarh: Abhishek Publications, 2009




<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Dr. (Mrs.) Garima Saini</b>	
<b>2.</b>	<b>Designation</b>	Assistant Professor, ECE	
<b>3.</b>	<b>Date of Joining the institution</b>	20.09.2006	
<b>4.</b>	<b>Educational Qualification</b>	B.Tech., M.Tech. (ECE), Ph.D.(ECE)	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>24 years</b>
		<b>Research</b>	<b>15 years along with teaching</b>
		<b>Industry</b>	<b>-</b>
		<b>Others (Administrative)</b>	<b>-</b>
<b>6.</b>	<b>Area of Specialization</b>	Wireless and Mobile Communication, Advanced Digital Communication, Advanced Antenna Design	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Undergraduate Level:</b> Analog Electronics, Digital Electronics, Communication System; <b>At Postgraduate Level:</b> Advanced Digital Communication, Mobile & Wireless Communication, Advanced Antenna System	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>112 completed 12 in progress</b>
		<b>Ph.D. Dissertation</b>	<b>01 submitted 02 in progress</b>
<b>9.</b>	<b>Research Publications</b>	<b>156</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> <b>02</b>
			Publication in <b>International Journals</b> <b>101</b>
			Presented in <b>Conferences/Seminars</b> <b>53</b>
<b>10.</b>	<b>Projects Carried out</b>	<b>PMKVY 2.0 &amp; PMKVY 4.0</b>	
<b>11.</b>	<b>Patents</b>	<b>02 Patents published</b>	
<b>12.</b>	<b>Technology Transfer</b>	<b>-</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>Nil</b>	






<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Dr. Mala Kalra</b>	
<b>2.</b>	<b>Designation</b>	Assistant Professor, CSE	
<b>3.</b>	<b>Date of Joining the institution</b>	09.08.2011	
<b>4.</b>	<b>Educational Qualification</b>	BE (CSE), ME (CSE); Ph.D. (Engg.)	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>21 years</b>
		<b>Research</b>	<b>11 years along with teaching</b>
		<b>Industry</b>	<b>½ year</b>
		<b>Others (Administrative)</b>	<b>-</b>
<b>6.</b>	<b>Area of Specialization</b>	Cloud Computing, Swarm Intelligence, Fog/Edge Computing, Data Science	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Undergraduate Level:</b> Computer Networking, Operating System, Data Structures, Web Technologies <b>At Postgraduate Level:</b> Cloud Computing; Network Security; Software Testing & Quality Management.	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	<b>48 completed 03 in progress</b>
		<b>Ph.D. Dissertation</b>	<b>- completed 04 in progress</b>
<b>9.</b>	<b>Research Publications</b>	<b>77</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b>
			Publication in <b>International Journals</b>
			Presented in <b>Conferences/Seminars</b>
<b>10.</b>	<b>Projects Carried out</b>	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)	
<b>11.</b>	<b>Patents</b>	<b>01</b> (A System for Wirelessly monitoring water level in a water tank & method thereof granted on 22.03.2024 (co-inventor) Patent No. 529897	
<b>12.</b>	<b>Technology Transfer</b>	<b>Nil</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>02</b>	Proceedings of International Conference on IOT Inclusive life (ICIL, 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	Dr. 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	14 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	<ol style="list-style-type: none"><li>1. Proceedings of National Seminar on Emerging Trends in Civil Engineering, 16-17 Nov., 2011 (Dr. Sanjay K. Sharma &amp; Himmi Gupta)</li><li>2. Proceedings of National Conference on Sustainable Infrastructure Development (NCSID) 13-14 March, 2014; (Dr. Sanjay K. Sharma, Dr. Varinder Singh Kanwar, Himmi Gupta &amp; Jyothi PM)</li><li>3. Proceedings of Training Program on Energy Efficient and Green Buildings from 24-26 Feb 2014. (Dr. Sanjay K. Sharma, Himmi Gupta &amp; Er. Balkar Singh)</li><li>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 &amp; Jyothi PM)</li><li>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 &amp; Himmi Gupta)</li></ol>		

S. No.					
1.	Name	Er. 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	14 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			

<b>S. No.</b>			
<b>1.</b>	<b>Name</b>	<b>Dr. (Mrs.) deaAmandeep Kaur</b>	
<b>2.</b>	<b>Designation</b>	Assistant Professor, Education & Educational Management	
<b>3.</b>	<b>Date of Joining the institution</b>	09.07.2014	
<b>4.</b>	<b>Educational Qualification</b>	BE (Chemical Engg), ME (Environmental Engg.); Ph.D.	
<b>5.</b>	<b>Work Experience</b>	<b>Teaching</b>	<b>16 years</b>
		<b>Research</b>	-
		<b>Industry</b>	-
		<b>Others (Administrative)</b>	-
<b>6.</b>	<b>Area of Specialization</b>	Environmental Engineering, Educational Management, Advanced teaching strategies, Evaluation and assessment, Classroom Communication	
<b>7.</b>	<b>Subjects teaching at Under Graduate Level &amp; Post Graduate Level</b>	<b>At Undergraduate Level:</b> Fluid Mechanics, Environmental Sciences, Natural Disaster Management  <b>At Postgraduate Level:</b> - Research Methodology, Project Planning & Management, Environmental Impact Assessment & Policy	
<b>8.</b>	<b>Research Guidance</b>	<b>Master's Dissertation</b>	-
		<b>Ph.D. Dissertation</b>	-
<b>9.</b>	<b>Research Publications</b>	<b>13</b>	<b>Number of Research Papers</b>
			Publication in <b>National Journals</b> <b>02</b>
			Publication in <b>International Journals</b> <b>06</b>
			Presented in <b>Conferences/Seminars</b> <b>05</b>
<b>10.</b>	<b>Projects Carried out</b>	<ul style="list-style-type: none"> <li>Developed &amp; Coordinated AICTE-NTTT MOOC Module 3: 'Communication Skills, Modes and Knowledge Dissemination' (12 Video and 7 e-content) launched on SWAYAM Portal from 2<sup>nd</sup> March to 27<sup>th</sup> April, 2020 (with 9444 participants).</li> <li>Developed 6 video and 3 e-content for MOOC, 'Research in Technical Education' launched on SWAYAM portal.</li> <li>8 Video Films available on YouTube</li> </ul>	
<b>11.</b>	<b>Patents</b>	<b>Nil</b>	
<b>12.</b>	<b>Technology Transfer</b>	<b>Nil</b>	
<b>13.</b>	<b>Number of Books Published with Details</b>	<b>01 Book Chapter</b>	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	19 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		

**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 Programmes – Sanctioned Intake and Reservation****Sanctioned Intake**

<b>S. No.</b>	<b>Programme</b>	<b>Intake</b>
1.	M.E. in Civil Engineering (Construction Technology and Management)	18
2.	M.E. in Computer Science and Engineering	06
3.	M.E. in Electrical Engineering (Instrumentation & Control)	12
4.	M.E. in Electronics and Communication Engineering (VLSI Design)	06
5.	M.E. in Mechanical Engineering (Manufacturing Technology)	18

**Reservation**

15% seats are reserved for SC candidates, 7.5% seats for ST candidates, 5% 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 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 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.

**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 (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.

**c) 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.

**d) 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.

**e) 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. 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.

## 6. Duration of the Programmes

### a) M.E. (Modular) Programmes

The normal duration of the M.E. (Modular) Programmes, including the thesis, shall be 3½ academic years (comprising 7 spells, with each spell of 5 weeks duration).

The maximum period for the completion of the programme, including the thesis, shall be 5½ academic years (comprising 11 spells).

### b) M.E. (Regular) Programmes

The normal duration of the M.E. (Regular) Programmes, including the thesis, shall be 2 academic years (comprising 4 semesters). The maximum period for the completion of the programme, including the thesis, shall be 3 academic years (comprising 6 semesters).

## 7. PROGRAM FEE (₹)

### a) Regular Mode Programmes

Fee Detail	For M.E. Regular Programmes (in Rs)
Registration Fee (One Time)	2,500/-
Academic Fee	25,000/- per semester
Late Fee (within Two Weeks) *	1,000/-
Extension Fees	5,000/- per semester (after 4th semester)
Security (Refundable)-One Time	7,000/-
Fees for other Facilities and Services	3,000/- per semester
Examination Fees	4,000/- per semester
Pre-Thesis Exam Fees	2000/-
Final Thesis Exam Fees	2000/-
Sports Fees	500/- per semester
Alumni Fees (One time)	1000/-

## (b) Modular Mode Programme

Fee Detail	For M.E. Modular Programmes (in Rs.)
Registration Fee (One Time)	2,500/-
Academic Fee	15,000/- Per Spell
Late Fee (within One Week) *	1,000/-
Missing Spell Fee	3,000/-
Extension Fee	5,000/- Per Spell (after 7th spell)
Security (Refundable)	7,000/- (One Time)
Final Thesis Exam	4,000/- each
Fee For Other Facilities and Services	1,000/- Per Spell
Examination Fee	4,000/- Per Spell
Sports Fee	500/- Per Spell
Alumni Fee (One Time)	1,000/-

### M.E. PROGRAMMES - 2024-25

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

S. No.	Branch of Master of Engineering Programme	Sanctioned Intake
i.	ME in Mechanical Engineering (Manufacturing Technology)	24
ii.	ME in Civil Engineering (Construction Technology & Management)	24
iv.	ME in Electrical Engineering (Instrumentation and Control)	24
v.	ME in Electronics & Communication Engineering (VLSI Design)	24
vi.	ME in Computer Science & Engineering	12

## 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.

### Categories of Admission

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

- In-service Teachers/Technical Staff of Technical Institutions/ Officials of State DTEs/ BTEs
- Working Professionals from Industry/ Other Organizations
- Engineering Graduates aspiring to be teachers.

## **Qualifications and Experience for Admission:**

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

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 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 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 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.

## **❖ 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**

% of marks in BE or its equivalent

#### **Multiplying Factor**

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}.

❖ **Cut off/last candidate admitted:** The data for the year 2022 – 23, 2023-24 & 2024- 25 is given below:  
❖

S. No.	M.Tech/ME Programme(s)	2022– 23		2023– 24		2024– 25	
		MINIMUM SCORE	MAXIMUM SCORE	MINIMUM SCORE	MAXIMUM SCORE	MINIMUM SCORE	MAXIMUM SCORE
1.	ME Civil Engg. (Const. Tech. & Mgt.) (Regular)	28.32	34.99	27.37	39.05	27.96	38.28
2.	ME Mechanical Engineering (Manufacturing Tech.) (Regular)	--	--	24.23	24.23	28.70	39.60
3.	ME Comp. Sc. & Engg. (Regular)	--	--	--	--	--	--
4.	ME Electrical Engg. (Inst. & Control) (Regular)	--	--	--	--	31.1	38.0
5.	ME Eltx. & Comm. Engg. (Regular)	--	--	--	--	28.4	28.4
6.	ME Civil Engg. (Const. Tech. & Mgt.) (Modular)	29.98	40.68	30.0	41.16	29.89	39.24
7.	ME Mechanical Engineering (Manuf Tech.) (Modular)	28.80	39.60	29.69	49.12	28.70	41.20
8.	ME Comp. Sc. & Engg. (Modular)	27.68	38.87	31.80	37.83	27.44	39.74
9.	ME Electrical Engg. (Inst. & Control) (Modular)	28.78	41.46	28.76	41.15	25.57	39.42
10.	ME Eltx. & Comm. Engg. (Modular)	29.36	37.20	32.68	38.57	--	--

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

❖ **PROGRAMME FEES (₹)**

**a) Regular Mode Programme**

<b>Fee Detail</b>	<b>For M.E. Regular Programmes (in Rs)</b>
Registration Fee (One Time)	2,500/-
Academic Fee	25,000/- per semester
Late Fee (within Two Weeks) *	1,000/-
Extension Fees	5,000/- per semester (after 4th semester)
Security (Refundable)-One Time	7,000/-
Fees for other Facilities and Services	3,000/- per semester
Examination Fees	4,000/- per semester
Pre-Thesis Exam Fees	2000/-
Final Thesis Exam Fees	2000/-
Sports Fees	500/- per semester
Alumni Fees (One time)	1000/-

**(b) Modular Mode Programme**

<b>Fee Detail</b>	<b>For M.E. Modular Programmes (in Rs.)</b>
Registration Fee (One Time)	2,500/-
Academic Fee	15,000/- Per Spell
Late Fee (within One Week) *	1,000/-
Missing Spell Fee	3,000/-
Extension Fee	5,000/- Per Spell (after 7th spell)
Security (Refundable)	7,000/- (One Time)
Final Thesis Exam	4,000/- each
Fee For Other Facilities and Services	1,000/- Per Spell
Examination Fee	4,000/- Per Spell
Sports Fee	500/- Per Spell
Alumni Fee (One Time)	1,000/-

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



**Academic Calendar of the University for the Session 2024 – 2025 for ME Programmes:**

**(a) Modular Programme:**

	<b>Spell June, 2024 7<sup>th</sup> Spell for Batch, 2021, 5<sup>th</sup> Spell for Batch</b>	<b>Spell December, 2024, 6<sup>th</sup> Spell for Batch 2021,</b>
	<b>2022, 3<sup>rd</sup> Spell for Batch 2023 and 1<sup>st</sup> Spell for New Batch 2024</b>	<b>4<sup>th</sup> Spell for Batch 2022, 2<sup>nd</sup> Spell of Batch 2023</b>
Normal Admission	28.05.2024	
Registration for old students	31.05.2024 to 03.06.2024	29.11.2024 to 30.11.2024
Late admission to be allowed by the Director NITTTR, with late fee of `1,000/-	04.06.2024 to 07.06.2024	----
University Examination for previous batch (two papers)	27.05.2024 to 05.06.2024	13.12.2024 to 21.12.2024
Commencement of Classes	08.06.2024	02.12.2024
Teaching	08.06.2024 to 11.07.2024 (34 working days including all Saturday & Sunday)	02.12.2024 to 31.12.2024 (34 working days including all Saturday & Sunday)
Class Test	12.07.2024	06.01.2025
End of the spell	12.07.2024	07.01.2025

**(b) Regular Programme**

	<b>First Semester (for new students, Batch 2024 – 26) and Third Semester (for students, Batch 2023 – 25)</b>	<b>Second Semester (for students, Batch 2024 – 26) and Fourth Semester (for students, Batch 2023 – 25)</b>
Normal Admission/ Registration	15.07.2024 to 19.07.2024	02.01.2024 to 05.01.2024
Late admission to be allowed by the Director NITTTR, with late fee of ` 1,000/-	22.07.2024 to 23.07.2024	08.01.2024 to 12.01.2024
Late admission to be allowed by the Vice Chancellor with late fee as per University rules	24.07.2024 to 25.07.2024	-----
Registration	22.07.2024 to 16.09.2024	08.01.2025 to 13.01.2025
Commencement of Classes	29.07.2024	13.01.2025
Teaching	01.08.2024 to 10.09.2024	13.01.2024 to 21.02.2025
First mid-semester tests	11.09.2024 to 13.09.2024	24.02.2025 to 25.02.2025
Teaching	16.09.2024 to 15.10.2024	26.02.2025 to 08.04.2025
Second mid-semester tests	16.10.2024 to 17.10.2024	09.04.2024 to 11.04.2025
End-semester examinations	19.12.2024 to 28.12.2024	26.05.2025 to 31.05.2025

**Schedule of End Semester/Spell University Examinations for ME Programmes (both Regular and Modular) is as per approval by Panjab University, Chandigarh**

❖ **PIO QUOTA** : **NIL**

## 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
<b>Total</b>				<b>3656</b>

- 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	<ul style="list-style-type: none"> <li>• 3D Metal Printer (ProX DMP 200)</li> <li>• 3D Polymer Printer (uPrint FDM)</li> <li>• 3D Scanner (Steinbichler COMET)</li> <li>• Flexible Manufacturing System</li> <li>• CNC Milling &amp; Turning Simulator</li> <li>• CAD Workstations – 31</li> <li>• HP DesignJet T1200 Plotter</li> <li>• Software – ANSYS, COMSOL, SolidWorks, Autodesk Inventor, MDT, CATIA, IDEAS, Delmia, MasterCAM, SolidCAM, ADSTEFAN, Creo, Flexsim, Simufact, Kisoft</li> </ul>
Measurements & Metrology	<ul style="list-style-type: none"> <li>• Setup for condition monitoring system of gears, shafts and bearing</li> <li>• Bearing Condition Monitoring Test Rig</li> <li>• Vibration Analyzer and Accessories; Thermal Imaging Camera</li> <li>• Machine Vision &amp; Inspection System</li> <li>• Eddy Current Flaw Detector</li> <li>• Magnetic Particle Crack Detector</li> <li>• Basic Measuring Instruments</li> </ul>
Machine Tool	<ul style="list-style-type: none"> <li>• CNC Vertical Milling Machine</li> <li>• Piezo Electric 6-Component Dynamometer with accessories</li> <li>• Condition Monitoring System Test and Measurement Equipment</li> <li>• Cryogenic Treatment Equipment</li> <li>• Spark Erosion EDM</li> <li>• Electro Chemical Machine</li> <li>• Lathes; Shaper; Milling Machine; Vertical drill machine</li> <li>• Surface Grinder; Tool and Cutter Grinder</li> <li>• Tungsten Inert Gas (TIG) Welding set</li> <li>• Metal Inert Gas (MIG) Welding set</li> </ul>
Materials & Material Testing	<ul style="list-style-type: none"> <li>• Scanning Electron Microscope</li> <li>• Spectrometer</li> <li>• Potentiostat/galvanostat</li> <li>• Universal Testing Machine – 01</li> <li>• Digital Rockwell cum Brinell hardness tester</li> <li>• Microhardness tester – 01;</li> <li>• Ultrasonic Flaw Detector</li> <li>• Wear Test Rig – 01</li> <li>• Scratch tester</li> <li>• Tool maker microscope</li> </ul>
Mechatronics	<ul style="list-style-type: none"> <li>• Electro-Hydraulic Trainer Kit</li> <li>• PLC controlled Electro-Pneumatic Kit with Ladder Diagram software</li> <li>• Electronically Controlled X-Y Table, Conveyer and Rotary Table</li> <li>• Microcontroller based DC Motor Control Trainer</li> <li>• Robotic Manipulator with control and simulation software</li> <li>• DSpace Data Acquisition Board; Brushless DC Motor Control Trainer</li> <li>• Stepper Motor Control Trainer</li> <li>• Trainer Boards for Sensors (Strain Gauge, Ultrasonic, Thermocouple, Pressure, Gas sensor etc.)</li> <li>• Sensors / Transducers for measuring Pressure, Torque, Flow Rate, Position etc.</li> <li>• Accessories - Oscilloscope, DC Power Supply, Function Generator etc.</li> <li>• Software - Automation Studio, MATLAB with toolboxes, Mathematica</li> </ul>





3D Metal Printer



CNC Vertical Milling Machine



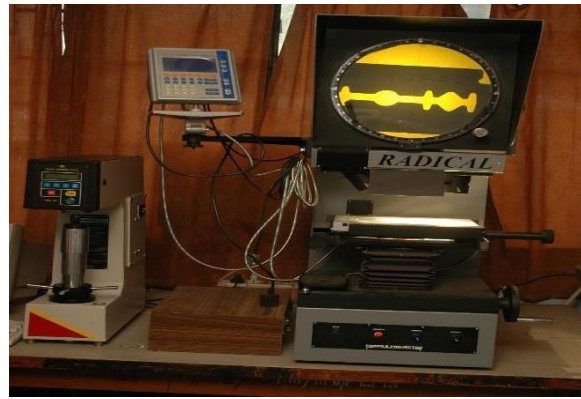
Flexible Manufacturing System



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 Digestor, 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, Ferrosan 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)

Bernoulli's theorem apparatus, Hydraulic testing pump for pipe Piggy 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; Perforimeter 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

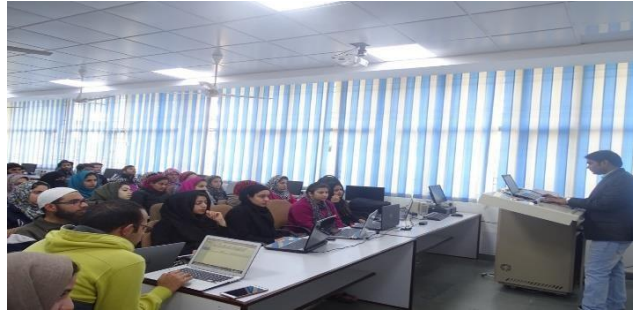
### Interactive touch screen with digital podium

- 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, LAN 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 rpm SATA 6.10 Gb/s 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 SVGA 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, Clipping 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 <sup>2</sup> )
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 15D, 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-DSPT-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; CADD0 Micro controller based CRO, Model CADD0- 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., Sciencetech-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

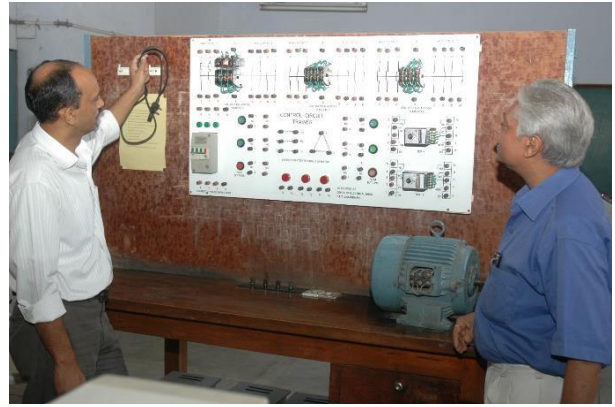
VPL-CX76 LCD Projector;01 Nos., Digital Visual Presenter , DP 6650 A;01 Nos., HP DC7000 Desktop ;08 Nos., Dell Latitude E5500 Laptop;03 Nos., Mathworks Suite with Tool Boxes;35 user Nos., MS office 2007 Paper License ;08 Nos., Emerson Online UPS 3 KVA ;01 Nos., HP DC 7000 Series Desktop Intel Vpro Config.;10 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 Acad 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 & Accessories.; 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 training 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 Elec. & Motor Control 1 Nos, Universal Programmer ,48 Pin, USB Based with user Manual 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 Starter 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.





## Electronics & Communication Engineering

### Laboratories of the Department:

1. Antenna Design Laboratory
2. Artificial Intelligence Laboratory
3. Communication Engineering Laboratory
4. Digital Signal Processing Laboratory
5. Embedded System Design Laboratory
6. VLSI Design Laboratory

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

#### Antenna Design Laboratory:

Vector Network Analyser, Antenna Gain Measurement Setup, Spectrum Analyser, Vector Network Analyser, RF Power Meter with Sensor, PCB Prototype Machine (EP2006), AutoLab (PCB Prototype Machine & Automatic Function), HFSS 16.0, CST Studio Suite 2024, Orcad v16.6 5 users.



**Antenna Testing and Radiation pattern measurement setup**

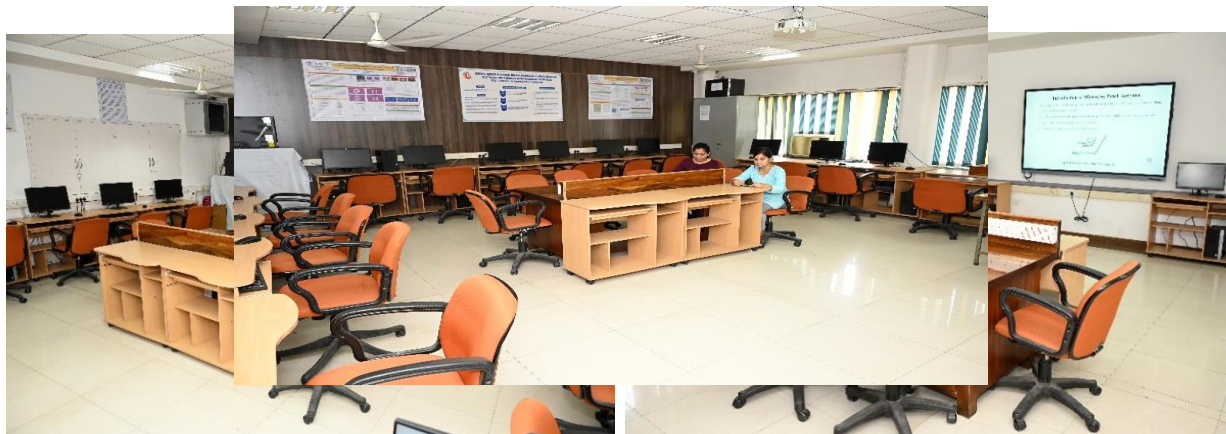
#### Artificial Intelligence Laboratory:

Computer Systems, Smart Screen 65", Open Source Software like Orange Cap, Anaconda, Python.



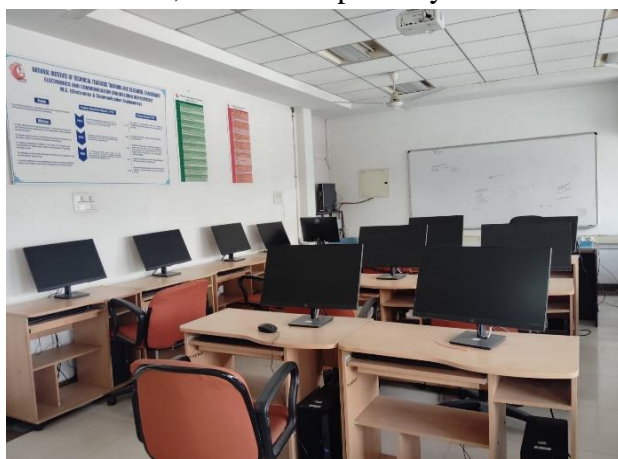
### **Communication Engineering Laboratory:**

2G & 3G Trainer Board, Wireless Network Development System, Trainer Kits (GSM, GPS ), DSO, Fiber Optic Communication Trainer Kit, Wireless Insite (05 Users), Flow Code V-6, OptiSim 5.2.



### **Digital Signal Processing Laboratory:**

MATLAB, Latest Computer Systems.





### **Embedded System Design Laboratory:**

Flow Code V-6, Embedded Kit ARM, Latest Computer Systems, ADC & DAC Interface, Microcontroller Development Board, IOT builder system with GSM IoT Gateway, Wireless Sensor, Multimedia Projector.



### **VLSI Design Laboratory:**

Latest Computer System, SILVACO TCAD Software, Semiconductor Device Simulate Professional, IC Design Toolkit, Fluxiom Set FOS Organic Simulator, Synopsys EDA Tools, Spartan 6 FPGA Kit, Cadence University Research Bundle, VLSI Software, Multimedia Projector.



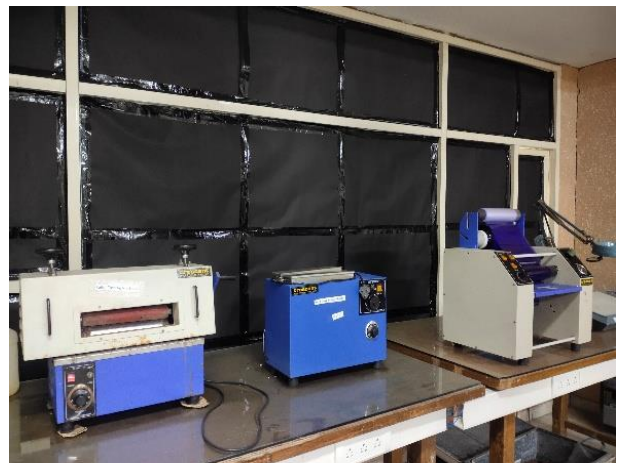
### **Smart Class Room**

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



### **Electronics Service Centre**

Electric Blower, Mini Electric Grinder, Magnavision Deluxe Transmitted light Model, Regulated Power Supply, CRO 100 MHz oscilloscope, CRO 20 MHz, Regulated DC Power Supply, Mixed Signal Oscilloscope, Digital Multimeter, SMD Gun, Signal Generator, PCB Seaming Machine, PCB Curing Machine, Photo Resist DIP Coating Machine, Ultra Violet Exposure System, Proto-Etch Etching Machine, Roller Tinning Machine, Roto-dye/developer, PCB Reprographic Camera, Dry Film Laminator, Ammonical Etching Machine, Thru-Hole Plating System, Proto-Developer/stripper, Soldering station, HP Elite SFF 600 G9 Desktop, Bench wise, Smart Document Camera, 5KVA UPS.





❖ **Computer Centre Facilities**

: (As on 01.09.2022)

S. No.	Particulars	Availability	
1.	<b>No. of Computer Terminals</b>	<b>709</b> (distributed among various labs. of the instt.)	
2.	<b>Hardware Specification</b>	Servers with Storage - Dual Xeon or Above Pentium Dual , i3, i5, i7; IV <sup>th</sup> Generation & above	<b>10 Servers</b> in Server Room  <b>709 Desktop PC's</b>
		Laptops	<b>112</b>
3.	<b>No. of Terminals on LAN/WAN</b>	All terminals (as entire institute is on wired and wireless network)	
4.	<b>Relevant Legal Software</b>	Application Software: <b>80</b>	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: <b>709</b>	All systems have been procured with preloaded Windows operating system
5.	<b>Printers</b>	<b>114 Printers</b>	
6.	<b>Internet Accessibility (in Kbps &amp; hrs)</b>	<b>1 Gbps NKN Connectivity</b>	

❖ **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** : **16 lakhs**

**Number of Library books/ Titles/Journals available** : **Lib. Books = 50,275 (as on 27.05.2025)**

**Print Journals** : **19**  
**Newspapers** : **03**  
**Magazines** : **12**  
**e-books** : **578**  
**E-resources** : **Through One Nation One Subscription (ONOS)**

**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**  
(Badminton, Table Tennis, Carom, Chess)

: Available



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

: Available

❖ **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):**

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

**Available**

## 10.16 Hostels



PG Hostel Block

- **Boys Hostel**
- **Girls Hostel**



Three Storeyed Hostel Block

- : ONE new hostel blocks for Boys (160 Rooms); Two Floors in Three Storeyed Hostel and one Floor in Two Storeyed PG 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. 29 dated 28.04.25

- ❖ **Designation** : Professor & Head, CDC
- ❖ **Phone Number with STD Code** : 0172-2759658
- ❖ **Fax Number with STD Code** : 0172-2791366
- ❖ **E-mail** : [abgupta@nitttrchd.ac.in](mailto:abgupta@nitttrchd.ac.in)

## 10.21 Name of the Nodal Officer for RTI

**: Dr. Niraj Bala**

: Approved vide Office Order No. 29 dated 28.04.25

- ❖ **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](mailto:nirajbala@nitttrchd.ac.in)

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

: Approved vide Office Order No. 29 dated 28.04.25

- ❖ **Designation** : Professor 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](mailto:nirajbala@nitttrchd.ac.in)

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

: Approved vide Office Order No. 29 dated 28.04.25

- ❖ Designation : Associate Professor and Head, EDIC and
- ❖ Phone Number with STD Code : 0172-2759673
- ❖ Fax Number with STD Code : 0172-2791366
- ❖ E-mail : [harsh@nitttrchd.ac.in](mailto:harsh@nitttrchd.ac.in)

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

: Approved vide Office Order No. 29 dated 28.04.25

- ❖ Designation : Professor, Applied Sciences
- ❖ Phone Number with STD Code : 0172-275751
- ❖ Fax Number with STD Code : 0172-2791366
- ❖ E-mail : [pankaj@nitttrchd.ac.in](mailto: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. 29 dated 28.04.25

- ❖ 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)

**10.26 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. 29 dated 28.04.25

- ❖ Professor (Dr.) AB Gupta as Transparency Officer
- ❖ Professor (Dr.) Pankaj Sharma as First Appellate Authority
- ❖ Professor (Dr.) Niraj Bala as Nodal Officer-cum-CPIO
- ❖ Dr. HV Samalia, as Asstt.CPIO

