

Sr. No.	Name of the college	Stream/Branch	Compulsory Subject	Core Discipline Specific Subject(s)	Interdisciplinary Elective Subject(s)
1	IKGPTU, Main Campus, Kapurthala	Management	Research Methodology	<ul style="list-style-type: none"> Accounting and Finance (PHD 902) Marketing Management (PHD 903) Human Resource Management (PHD 904) Report Writing and Presentation (PHD 905) 	<ul style="list-style-type: none"> Human Values and Professional Ethics (PHD 906)
	IKGPTU, Main Campus, Kapurthala	Electrical Engineering	Research Methodology	<ul style="list-style-type: none"> Renewable Energy Resources Power System Engineering Energy Management Engineering 	<ul style="list-style-type: none"> Waste Energy Management (PhDEE-103-19)
	IKGPTU, Main Campus, Kapurthala	Chemical Sciences	Research Methodology	<ul style="list-style-type: none"> Advanced Organic Chemistry 	<ul style="list-style-type: none"> Laboratory Practices and Safety
	IKGPTU, Main Campus, Kapurthala	Food Science and Technology	Research Methodology	<ul style="list-style-type: none"> Advances in Food Processing Technology 	<ul style="list-style-type: none"> Advances in Analytical Techniques
	IKGPTU, Main Campus, Kapurthala	Computer Science & Engg.	Research Methodology	<ul style="list-style-type: none"> Soft Computing 	<ul style="list-style-type: none"> Advance Data Communication
	IKGPTU, Main Campus, Kapurthala	Mathematical Sciences	Research Methodology	<ul style="list-style-type: none"> Method in Applied Mathematics Continuum Mechanics Advanced Analysis Presentation Advanced Number Theory Advanced Numerical Methods 	<ul style="list-style-type: none"> Methods in Applied Mathematics
	IKGPTU, Main Campus, Kapurthala	Journalism and Mass Communication	Research Methodology	<ul style="list-style-type: none"> Communication Theories Relevant Knowledge in Area of Research/Seminar 	<ul style="list-style-type: none"> Computer Applications
	IKGPTU, Main Campus, Kapurthala	Mechanical Engineering	Research Methodology	<ul style="list-style-type: none"> Non-Conventional Machining 	<ul style="list-style-type: none"> Production Engineering
2	ACET, Amritsar	Civil Engineering	Research Methodology	<ul style="list-style-type: none"> Pavement Design, Construction and Maintenance 	<ul style="list-style-type: none"> Civil Engineering applications of remote sensing and GIS

	ACET, Amritsar	Computer Science & Engineering	Research Methodology	<ul style="list-style-type: none"> • Network Security and cryptography • Soft Computing 	<ul style="list-style-type: none"> • Mathematical Foundations of Computer Networks
	ACET, Amritsar	Mechanical Engineering	Research Methodology	<ul style="list-style-type: none"> • Composite Materials • Advanced Thermodynamics 	<ul style="list-style-type: none"> • Mechatronics
	ACET, Amritsar	Electronics and Communication Engineering	Research Methodology	<ul style="list-style-type: none"> • Advanced Wireless Communication • Advanced Communications system • Optical Communication Technology 	<ul style="list-style-type: none"> • Adhoc Wireless and Sensor Networks
3	DAVIET, JALANDHAR	Civil Engineering	Research Methodology	<ul style="list-style-type: none"> • Transportation and Highway Technology • Foundation Design and Construction • Environment Engineering and Management • Pavement Design, Construction and Maintenance • Bridge Engineering • Advanced Construction Technology • Advanced Structural Engineering • Hydraulics Engineering • Geotechnical Engineering 	<ul style="list-style-type: none"> • Disaster Management. • Civil Engineering applications of remote sensing and GIS.
	DAVIET, JALANDHAR	Mechanical Engineering	Research Methodology	<ul style="list-style-type: none"> • Non-Conventional, Machining • Composite Materials • Tribology 	<ul style="list-style-type: none"> • Production Engineering • Product Design and Development
	DAVIET, JALANDHAR	Electrical Engineering	Research Methodology	<ul style="list-style-type: none"> • Renewal Energy Resources 	
	DAVIET, JALANDHAR	Electronics and Communication Engineering	Research Methodology	<ul style="list-style-type: none"> • Advanced Wireless Communication • Advanced Communication Systems 	<ul style="list-style-type: none"> • Internetworking • Neural Networks and Fuzzy Logic

				<ul style="list-style-type: none"> • Advanced Digital Signal processing • Real time concepts for Embedded systems • Optical Communication Technology • Optical Networks • Advanced Data Communication • Image and Video Processing • Bio-Medical Signal Processing • RF & Microwave System Design • Coding Theory and Techniques 	<ul style="list-style-type: none"> • Adhoc Wireless and Sensor Networks
	DAVIET, JALANDHAR	Computer Sciences & Engineering	Research Methodology	<ul style="list-style-type: none"> • Advance Software Engineering • Soft Computing 	<ul style="list-style-type: none"> • Optimization Techniques • Adhoc Wireless and Sensor Networks
4	IET Bhaddal	Mechanical Engineering	Research Methodology	<ul style="list-style-type: none"> • Non-Conventional Machining • Composite Materials 	<ul style="list-style-type: none"> • Production Engineering • Optimization Technique
	IET Bhaddal	Computer Sciences & Engineering	Research Methodology	<ul style="list-style-type: none"> • Advanced Information Security • Advance Software Engineering • Advance Operating Systems 	<ul style="list-style-type: none"> • Adhoc Wireless and Sensor Networks
	IET Bhaddal	Management	Research Methodology	<ul style="list-style-type: none"> • Accounting and Finance • Marketing Management • Human Resource Management • Report Writing and Presentation 	<ul style="list-style-type: none"> • Business Communication • Corporate Finance & Indian Financial System • Financial Management • Financial Institutions & Markets • Investment Analysis and Portfolio Management • Financial Reconstruction & Corporate Reporting • Consumer Behaviour • Services Marketing • Retail Management • Employee • Relations/Industrial relations

					<ul style="list-style-type: none"> • International Human Resource Management • Business Communication for Managerial Effectiveness
5	ISF College of Pharmacy, Moga		Research Methodology	<ul style="list-style-type: none"> • Pharmaceutics • Pharmaceutical Chemistry • Pharmacology • Pharmacognosy • Plant Tissue Culture 	<ul style="list-style-type: none"> • Modern Pharmaceutical Analytical Techniques • Intellectual Property Rights • Pharmacological and Toxicological Screening
6	SBSSTC, Ferozpur	Computer Sciences & Engineering	Research Methodology	<ul style="list-style-type: none"> • Advanced Information Security 	<ul style="list-style-type: none"> • Adhoc Wireless and Sensor Networks
	SBSSTC, Ferozpur	Electrical Engineering	Research Methodology	<ul style="list-style-type: none"> • Power System Engineering 	<ul style="list-style-type: none"> • Renewal Energy Sources
	SBSSTC, Ferozpur	Electronics and Communication Engineering	Research Methodology	<ul style="list-style-type: none"> • Advanced Wireless Communication System • Advanced Communication Systems • Advanced Digital Signal processing • Optical Communication Technology • Optical Networks • Image and Video Processing • RF & Microwave System Design • Microwave and Millimeter wave Circuits • Radiating System 	<ul style="list-style-type: none"> • Adhoc Wireless and Sensor Networks • Internetworking Sensor for Ranging and Imaging
	SBSSTC, Ferozpur	Mechanical Engineering	Research Methodology	<ul style="list-style-type: none"> • Advanced Heat Transfer • Non-Conventional Machining • Advanced Fluid Mechanics and CFD • Finite Elements Methods • Composite Materials • Optimization Techniques • Tribology • Advanced Thermodynamics 	<ul style="list-style-type: none"> • Production Engineering • Product Design & Development • Material Handling Equipment Design

	SBSSTC, Ferozpur	Computer Application	Research Methodology	<ul style="list-style-type: none"> Advanced Information Security 	<ul style="list-style-type: none"> Adhoc Wireless and Sensor Networks
	SBSSTC, Ferozpur	Chemical Sciences	Research Methodology	<ul style="list-style-type: none"> Laboratory Practices & Safety 	<ul style="list-style-type: none"> Introduction to Material Chemistry
	SBSSTC, Ferozpur	Physical Sciences	Research Methodology	<ul style="list-style-type: none"> Theoretical Methods in Physics Advanced Condensed Matter Physics Computational Physics 	<ul style="list-style-type: none"> Techniques in Experimental Physics
	SBSSTC, Ferozpur	Mathematical Sciences	Research Methodology	<ul style="list-style-type: none"> Method in Applied Mathematics 	<ul style="list-style-type: none"> Optimization Techniques
	SBSSTC, Ferozpur	Management	Research Methodology	<ul style="list-style-type: none"> Marketing Management Human Resource Management 	<ul style="list-style-type: none"> Report Writing & Presentation Human Values and Professional Ethics
7	GNDEC, Ludhiana	Civil Engineering.	Research Methodology	<ul style="list-style-type: none"> Transportation and Highway Technology Foundation Design & Construction Environment Engineering & Mgt. Pavement design construction & maintenance. Bridge Engineering Advanced Construction Technology Advanced Structural Engineering Geotechnical Engineering 	<ul style="list-style-type: none"> Computer Aided Design and Methods
	GNDEC, Ludhiana	Mechanical Engineering	Research Methodology	<ul style="list-style-type: none"> Non-Conventional Machining Computer Aided Design Tribology <p>Advanced Thermodynamics</p>	<ul style="list-style-type: none"> Production Engineering <p>Material Handling Equipment Design</p>
	GNDEC, Ludhiana	Electronics & comm. Engineering	Research Methodology	<ul style="list-style-type: none"> Radiating systems <p>Advanced data communications</p>	Data warehousing & Data Mining

	GNDEC, Ludhiana	Electrical Engg.	Research Methodology	<ul style="list-style-type: none"> • Power System Engineering • Energy Mgt. Engineering Renewal Energy Resources	Communication Systems
	GNDEC, Ludhiana	Computer Science & Engg.	Research Methodology	<ul style="list-style-type: none"> • Advanced concepts in image processing • Advanced software Engineering Soft Computing Data warehousing & Data Mining	Advanced data Communication