

**CHITKARA**  
UNIVERSITY



## Ph.D. Admission 2021-22

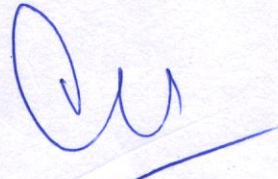
Applications are invited for admission in Ph.D. programme being offered by the university from the eligible candidates in various disciplines. The application forms can be downloaded from website [www.chitkara.edu.in](http://www.chitkara.edu.in)

The discipline wise vacancies are displayed on the university website and the candidates are requested to apply along with a fee of Rs.2100/- in cash or DD favoring Registrar, Chitkara University payable at Rajpura.

The last date for submission of application forms is 02-08-2021.

Notified on 01.07.2021 in 'The Tribune'  
and 'Times of India'

**Dean (Doctoral Research Centre)**  
Business Management  
Chitkara University, Punjab  
Chandigarh-Patiala Highway  
Tehsil-Rajpura, Distt. Patiala  
Punjab-140401 - (India)

  
Dean (Ph.D. Programme),  
Chitkara University Research and  
Innovation Network (CURIN)  
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**Doctoral Research Programme**  
**CURIN, Chitkara Univesity, Punjab**

**Seats Availability**

Department	Specialization	Seats Available
PhD (Engineering & Technology)	<p>CSE: Network Security, Internet of Things, Big Data, Cloud Computing, Automation, Database Design, Opinion Mining, Software Engineering, Data Analytics, Virtualization, Neuro Business, Data Mining, Software Engineering, Network Security, Parallel Computing, Open MP and CUDA Programming, Network Application Programming, Distributed Computing, Artificial Intelligence, Digital Forensics, Computer Language Training, Social Computing and Machine Learning, Design Analysis of Algorithm, Data structures, Embedded systems, MANETS, Data Mining, Wireless sensor networks,</p> <p>ECE: Augmented and Virtual Reality, Hybrid Tracking, Modeling and simulation of electronic devices, Design of a Radio Frequency Low Noise Amplifier, Electroporation technique to treat Cancer, Image processing, Wireless communication (MIMO Systems and cognitive radio), Industrial Microwave/RF in food, Vision system implementation (Image processing, pattern recognition, stereo imaging and advanced information processing systems) Nano-Photonics and Integrated Optics, Optical Communication Systems, Radio-over-Fiber links. Modulation formats, Wireless communications, Digital Signal Processing for Wireless Channel Estimation, Cognitive radio, Error control coding. VLSI design (Analog &amp; Digital), Biomedical VLSI Design, FPGA based signal processing, Non-Destructive Testing,</p> <p>ME: Non-Conventional machining, manufacturing, material transfer, surface roughness &amp; micro-hardness, Tribology, Composites, Ergonomics, CAD/CAM/CAE, reverse Engineering, Thermal Engineering, Industrial Engineering, Design Engineering, Electrochemical storage of hydrogen, Hydrogen Fuel Cell technologies, Materials for energy storage, Renewable and sustainable energy systems, Heat Sinks, Thermal engineering and fluid mechanics, Computational Fluid Dynamics (CFD), Total Quality Management (TQM), Bio-Materials</p> <p>CE: Retrofitting of structures, Highway Engineering, Road Pavements, Bituminous materials, mixtures and modification of bitumen, Pavement material characterization, Pavement analysis and design, Transportation system Planning and Management. Environmental Engineering, Water Quality, Industrial Pollution Control, Air pollution, Transport Environment interaction, EIA, Climate Change. Geotechnical Engineering (Slope stability, Slope stabilization, pile foundation); Geo-environment Engineering (Engineered landfills, Ash ponds).Construction Technology &amp; Management with highways &amp; Structures. High Performance concrete, Use of admixtures in concrete, Analysis and structural design of RCC and Steel structures. Green Buildings and Sustainable construction Practices, Industrial and Bio-Agri-wastes as alternate construction materials</p>	100

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PhD (Applied Sciences)	Inorganic chemistry, Water contamination and its removal, Synthesis of nano particles, Soft material Physics (Liquid Crystal), LC Nano Techonology, Solid State Physics, Nanomaterials, Medical Physics, Nuclear Physics, Wastewater Treatment, Bioremediation, nanoparticle based Environmental Clean-up technologies, Environmental Toxicants/Contaminant remediation, Bio-Solid Waste Management, Composting & Alternative Energy resources, Analytical Chemistry (Chromatography), Reliability, maintainability, operation research, statistical techniques (sampling, various tests) applied mathematics	14
PhD (Education)	Educational Technology, Environmental Education, Educational Psychology, Collaborative Learning, Blended Learning, Educational Research and Statistics, E-Learning, Pedagogy, Hybrid Teaching, Curriculum development, Assessment ,Career Counseling ,Research in school Education, Educational Philosophy and Sociology, Special Education,	03
PhD (Media Studies)	Radio and TV Journalism, Advertising and Public Relations, Film Studies, Online Media , Print Journalism , Photography, Cinematography.	02
PhD (Pharmaceutical Sciences)	Drug Discovery and Derivatisation, Analytical Method Development Phytochemical and Phytopharmaceutical Research, Formulation and Development, Nano formulation and Advanced Drug Delivery Systems, Pre-clinical, pharmacological screening and Pharmacological Method Development, Clinical Research and Intervention study	105
PhD (Health Sciences)	Physiotherapy, Optometry, Life sciences, Allied health sciences, Nursing	23
PhD (Business Management)	Human Resource Management: Strategic human resource management, Organisational behaviour, Employee relations, Labor disputes and resolutions, Employment law, Talent management and leadership, Responsible and sustainable human resource management, Future trends in human resource management, Learning and development, Human capital management, International human resource management, Organisational culture, Rewards and performance management, Diversity and inclusion, Organisational change and its implications on human resource management, Human resource analytics Marketing: Consumer buying behaviour, Business to business marketing,	68

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Customer relationship management, International marketing, Sales management, Interactive and direct marketing, Marketing research, Service marketing, New product planning and development, Digital marketing, Retailing, Strategic marketing planning, International marketing, Product and brand management, Advertising and sales promotion

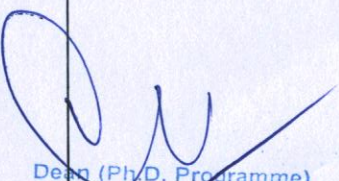
Finance: Behavioural finance, Corporate finance, Climate finance, Entrepreneurial finance, Financial markets, Fund management Distribution forecasting with financial applications, Regulation of financial markets and institutions, Corporate governance, Financial economics, Portfolio optimization, Asset management, Asset pricing, Banking, Risk management and analysis

Corporate Strategy and Policy: Organisational policies, Business environment, Social responsibility into corporate strategy, Cooperative strategy partnerships, Knowledge creation and management, Strategic resource allocations, Strategic human resources management, Leadership, creativity, and social responsibility, Business ethics, E-business strategy

Supply Chain Management: Demand forecasting, Supply chain innovation, E-supply chains, Lean and agile supply chain, Logistics management, Production and distribution planning, Industry 4.0, Reverse and closed loop supply chains, Supply chain risk management, Performance measurement, Value chain analysis, Sustainability

Business Sustainability: Environmental management systems, Recycling and waste management, Sustainability in tourism, Sustainability in healthcare, Sustainable transportation, Industrial development and sustainability, Impact of safety, security and disaster management on sustainability, Unsustainable production and consumption patterns, Social aspects of sustainability, Sustainable resources utilization, Green purchasing and eco-design, Measuring and monitoring sustainability, Ethical aspects of sustainable development, Impact of globalization of business on local, national and regional sustainability and stability

Information Science & Technology: Information flow and communication, Information processing and management, Information seeking behaviours, Economic impact of information and knowledge, Information and knowledge policy formulation, Content and knowledge management, Information technology, Big data in business, Social media business, Legal and political issues relating to information, Information system developments and evaluation, Business intelligence, Technology acceptance models

  
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