



BML MUNJAL UNIVERSITY™
A **HERO GROUP** INITIATIVE

Doctoral Programme Prospectus



Foreword

The BML Munjal University (BMU), named after Padma Bhushan Shri Brij Mohan Lall Munjal, was founded in 2014 based on his vision of being a leader in transformative learning and translational research. BMU focuses on bringing together versatile interdisciplinary ideas to innovate and create knowledge in a stimulating environment and finding creative solutions to societal and industrial problems.

The University comprises four schools: School of Engineering and Technology, School of Management, School of Law, and School of Liberal Studies, offering undergraduate, postgraduate and Ph.D. programmes. Over the past many years, Research Centers of Excellence have been established like, Center for Advanced Materials and Devices (CAMD), Center for Automation, Robotics and Mechatronics (CARM), Center for Computational and Complexity Sciences (C3S), Center on Law, Regulation and Technology (CLRT), and Center for Inclusive Innovation (CII), with strong industry collaboration. The state of the art incubation centers, and research collaboration with organizations both within and outside India are promoted. Till date, the research projects are fetched from Department of Science and Technology (DST), Science and Engineering Research Board (SERB), Ministry of Electronics and Information Technology (MEITY or DIETY), NITI Aayog, National Industrial Research and Development Agency (NIRDA), Ministry of Mines, National Board for Higher Mathematics (NBHM), Royal Academy of Engineering UK, Rockman industries, M/S Everest Aluminum Pvt. Ltd., M/s Maruti Recycling Ltd., Lakshya Food India Limited, Border Mission Limited Singapore, etc. The ACIC-BMU Foundation (ACIC-BMU) has been set up by BMU along with the support of Atal Innovation Mission, NITI Aayog to promote and support innovation and entrepreneurship.

BMU desires to transform the society through applied, practical and translational research leading to prototypes and product development, technology transfers and spin-off companies. It provides a huge opportunity to create new knowledge and innovate across disciplines, more so as a young university which is flexible to be molded for translational and transdisciplinary research. Therefore, at BMU, there is a great thrust and impetus given to research that is transdisciplinary and translational—has great impact on the society.

In nutshell, the BMU is equipped with a well-defined research policy to promote faculty and research scholars for impactful publication of international standard, patentable research leading to commercialization or start-up, and contribute towards excellence of our nation regarding the basic, applied, and translational research.

DEAN - Research and Development Cell

School of Engineering & Technology

The School of Engineering & Technology (SoET) came into existence in 2014. The Ph.D. programme is envisioned keeping in view the emerging needs of industry and society for sustainability. Opportunities to do research in the following areas are available:

Applied Sciences: Experimental Condensed Matter Physics, Theoretical Physics, Computational Physics and Chemistry, Environmental Physics and Chemistry, Materials Science, Quantum Physics and Chemistry, Nanoscience, Physical Chemistry, Organic Chemistry, Inorganic Chemistry, Interdisciplinary Computational Biology, AI/ML/Scientific Computing, Applied Mathematics, Differential Equations, Numerical Analysis, Fluid Dynamics, Nonlinear Dynamics, Fractal Geometry.

Computer Science Engineering: Machine Learning, Natural Language Processing, Data Science, Computational Social Science, Science of Science, Bibliometrics, Soft Computing, Fuzzy Theory/ Neutrosophic Sets, Cyber Forensics, Malware Analysis, Blockchain, Computational Finance, Computer Vision, Image Processing, Text Analytics, Computer Networks, Remote sensing/GIS, Information Retrieval and Text mining.

Electronics and Communication Engineering: Power Electronics, VLSI Design and Testing, Internet of Things (IoT) Based System Design.

Mechanical Engineering: Sustainability, Electric Vehicles, Industry 4.0, Supply Chain, Industrial Engineering, Operations Research, Production Planning & Control, Automation, Composites, High-Entropy Alloys, Tribology, Mechanical behaviour of materials, Artificial Intelligence in Materials Science, Casting and Solidification, Aluminium Recycling, Metallurgy, Renewable Energy Systems. Turbulent flows (CFD), Nano fluids, Vehicle Dynamics, Product architecture and platforming, Automobile design Process, Vehicle Testing, Biomechanics.

The faculty members have rich national and international research experience. The following is the list of faculties for specific areas.

Applied Sciences	Prof. (Dr.) Anirban Chakraborti, Dr. Sambhunath Bera, Dr. Sridharbabu Yarramaneni, Dr. Abhimanyu Singh Rana, Dr. Tabish Rasheed, Dr. Chhayabrita Maji, Dr. Suchitra Rajput Chauhan, Dr. Vishal Baloria, Dr. Sanmitra Barman, Dr. Amarnath Bheemaraju, Dr. Arijit Maitra, Dr. Akhlaq Husain, Dr. Ziya Uddin, Dr. Rishi Asthana, Dr. Ranjib Banerjee
Computer Science and Engineering	Dr. Sarabjot Singh Anand, Dr. Kiran Khatter, Dr. Soharab Hossain Shaikh, Dr. Yogesh Gupta, Dr. Arpit Bhardwaj, Dr. Devanjali Relan, Dr. Hirdesh Pharasi, Dr. Pradeep Kumar Arya, Dr. Kiran Sharma, Dr. Satyendr Singh, Dr. Atul Mishra, Dr. Nishtha Phutela
Mechanical Engineering	Prof. (Dr.) A. K. Prasada Rao, Dr. Sushil Chandra, Dr. Maheshwar Dwivedi, Dr. Amiya Kumar Dash, Dr. Neeraj Kumar Sharma, Dr. Ranbir Singh, Dr. N.Ch. Kaushik, Dr. Ajay Kumar Sood
Electronics & Computer Engineering	Dr. Rajiv Dey, Dr. Ashok Kumar Suhag, Dr. Anubhav Agrawal, Dr. Nirupama M.P.
English	Dr. Nandita Choudhury

School of Management

The School of Management (SoM) has designed its Ph.D. programme to transform students into learned, skilled, and knowledgeable academicians dedicated to the service of nation and world. The programme structure is conceptualized in keeping with the experiential learning with an interdisciplinary research approach in fundamental and applied research. Accordingly, following areas of research are emphasized:

Economics and Public Policy, Finance and Accounting, Information system and Business Analytics, Marketing and Sales, Operations research and management, Organizational Behaviour and HRM, Strategic Management, Management in Developing Sector, Innovation and Entrepreneurship, Corporate Social Responsibility and Sustainability.

The following faculty are actively involved in the research.

School of Management	Dr. Anuja Agarwal, Dr. Anusree Paul, Dr. Chirag Malik, Dr. Deepak Pandit, Dr. Deepti Sharma, Dr. Deepika Dixit, Dr. Dipankar Das, Dr. Gyanesh Jain, Dr. Jaskiran Arora, Dr. Jaya Ahuja, Dr. Richa Mishra, Dr. Rik Paul, Dr. Ritu Chhikara, Dr. Ruchi Garg, Dr. Sangita Das Dutta, Dr. Sucheta Sardar, Dr. Vaishali Sharma
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School of Law

The Ph.D. programme in law is designed to facilitate generation of high-quality researchers, capable of understanding legal theory, legal practice, and the relationship between them through rigorous doctrinal and interdisciplinary research. The following research areas are available with the faculty of School of Law:

Legal Theory and Philosophy, Political Philosophy, Constitutional Law, Comparative Constitutional Law, Comparative Law, Constitutional Theory, Comparative Law, Law and Economics, Competition Law, Telecommunication Law, Environmental Law, Climate Change Law, Criminal Law, International law, Human Rights Law, Legal History, Law and Economic Regulation.

Following faculty members are in School of Law (SoL):

School of Law	Dr. Akhilendra Pratap Singh, Dr. Kavita Chawla, Dr. Pritam Baruah, Dr. Vikas Kathuria, Dr. Ananda Burra, Dr. Adithya Krishna Chintapanti, Dr. Amrisha Pandey, Dr. Shayequa Zeenat Ali
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Ph.D. Admission

Applications are invited for admission into Doctoral Programme (Ph.D.) across all schools of BMU.

Type of Candidates:

Full Time, Part Time, Industry Sponsored, Working Professionals, Retired Professionals, International students.

Eligibility:

4 years B.Sc./ B.Tech./ B.E. degree with a minimum of 75% marks in aggregate or its equivalent grade on a point scale.

OR

1-year/2-semester master's degree programme after a 4-years/8-semesters bachelor's degree programme or a 2-years/4-semesters master's degree programme after a 3-year bachelor's degree programme or qualifications declared equivalent to the master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade in a point scale.

OR

Completed M.Phil. programme with at least 55% marks in aggregate or its equivalent grade on a point scale.

OR

An equivalent qualification from a foreign educational institution.

Fellowship, Scholarship and Professional Development Grant:

- University Research Fellowships: INR 40,000/- (per month) for the first two years and INR 50,000/- (per month) for the third and fourth year.
- Scholarship in the form of fee waiver for deserving candidates.
- Attractive Annual Professional Development Grant from day one.

• More Information



Fee Structure



Admission Procedure



Note: University Funded Ph.D. seats: SoET (7), SoM (2) and SoL (1). If suitable candidates are not found, the university may not fill all the seats. The committee's decision in this regard is final and binding.

Faculty



Faculty Specific Research Area



APPLY for Ph.D.



Last Date of Application: 30th May 2023

For further queries, please e-mail to: phdadmission@bmu.edu.in

Visit BMU Website



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The BMU logo embodies the truth that all people, no matter how different, share a common root. The tree is a symbol of the endurance of knowledge and enlightenment. The kaleidoscope of colourful circles that make up its branches represent the many disciplines of knowledge and shades of opinion that freely overlap to create new thoughts and ideas. We endeavour to have every BMU student imbibe an acknowledgement of the essential humanity of mankind and respect for the diversity of cultures & opinions, as they go forward to take their place in the real world.

Campus:
67th KM Milestone, NH-8, Dist. Gurugram - 122413, Haryana, India
Website: www.bmu.edu.in