BML MUNJAL UNIVERSITY ™

A **Hero GROUP** INITIATIVE

ANNUAL REPORT
2018 - 2019

CONTENTS

VISION AND MISSION

Vision

BML Munjal University seeks to nurture ethical leaders who are skilled, knowledgeable and have the life skills required for leading their organization to success.

The University shall seek the advancement and dissemination of practically oriented knowledge benchmarked with the best global standards.

Mission

BML Munjal University aims to be a leading university for the quality and impact of its teaching, research and linkages with major stakeholders. The focus of the university is to find creative solutions to problems through application of knowledge. The university aims to create a talented community of students and faculty who excel in teaching, learning and research, in a creative stimulating environment. The university will collaborate with other institutions for development of science, technology and arts in global context.

YEAR AT A GLANCE

The university continues to embark upon its academic excellence on the pattern of established institutes of excellence in the country.

The academic year 2018-19 witnessed 324 students have receiving degrees across five B. Tech programs and 93 students receiving degrees in BBA, B.Com (Hons) and MBA programs at the 4th Annual Convocation held on August 31, 2019.

The School of Engineering and Technology introduced a new, innovative and a student-centric B. Tech curriculum with lots of flexibility in choice of courses, more than 50% experiential learning, several industry interventions and compulsory international immersion programmes. The School of Management also revised BBA and MBA curricula. With the addition of School of Law (SoL), BBA-LLB(Hons) and BA-LLB(Hons) integrated programmes have started. These programmes also have interdisciplinary courses being taught by academicians of repute as well as experts from the field. All these curricula will be taught in a blended learning environment. Accordingly, a digital infrastructure has been created throughout the campus so that students can learn from anywhere anytime.

Two new departments, namely, Department of Applied Sciences and Department of Languages and Liberal Arts, have been established for better academic delivery.

A Centre for Advanced Materials and Devices to conduct research in the area of materials characterization, thin films and device fabrication was created.

During 2018-19, faculty published 44 research papers in peer reviewed high impact journals, 62 papers in conferences and 10 books and book chapters. Two conferences and 8 Faculty Development Programmes were organized.

This year saw an improvement in participation of faculty in sponsored research and consultancy projects. Five extra-mural projects amounting to Rs. 1.8 crores were completed. Two externally funded projects amounting to Rs. 86.00 lakhs and three consultancy projects with an outlay of Rs. 30.00 lakhs are in progress. Students and faculty also filed 32 patents.

At present there are 21 PhD fellows. From the current academic year, the PhD fellowships has been enhanced to Rs 40.000 per month. A professional development grant for all PhD fellows has also been started.

During 2018-19, an Institute of Innovation and Entrepreneurship, I2E was set-up. The institute already had a good start, with Mr. George Goh, as its founding Honorary Chairman. He has donated a Professorial Chair in Innovation and Entrepreneurship amounting to USD 50000 per annum. The I2E has the Centre for Inclusive Innovation supported by Imperial College London as its constituent, and will house a state of the art incubator, named as Propel. It will assist young students in various mentorship activities and also enable them to network Legal Advisors, Venture Capitalists, Angel Investors, Financial Institutions, Marketing Agencies and Technical Experts.

The university continues to expand its relationship with a number of industries, research organizations, and academic institutions. In 2018-19, Aston University, University of Warwick and Loughborough University from UK, Kent State University; St. Marys College of California, University of Michigan from USA, North South University, Bangladesh; Carleton University, Canada, University of Salerno, Italy; University of Edger, Norway, and Tribhuvan University, Nepal, were added to the list. The new industry partners added were Microsoft, Sabudh Foundation and Ativitti AI Pvt Limited and Luthra and Luthra Partners.

During this year, several corporate experts from industries and foreign universities visited the university to deliver expert lectures and had interactions with the faculty and students. A number of leadership talks were also organised in the university. A few to name: Arjuna awardee Mr. Akhil Kumar,

Gen. V.P. Malik and Olympic gold medallist Mr. Abhinav Bindra.

An experience centre, named after our beloved Dr. Brij Mohan Lall Munjal ji was inaugurated on 19th Nov 2018, which is celebrated as the Founder's Day. On this day, the Hero MotoCorp North Block was also formally inaugurated. This academic block houses the School of Law, faculty cabins for 100 faculty members, classrooms, laboratories and the Centre for Advanced Materials and Devices.

An Executive Education Centre was established which added to the world class infrastructure of the University. The Centre is equipped with three state of the art hubs having tele-presence facility, and many discussion and meeting rooms. During 2018-19, the university conducted three executive education programmes, Hero MBA, Women in Leadership and Hero Fin Corp Ivy League programme with an outlay of more than Rs. 2.5 Crores. Currently, in addition to these programmes, two new programmes (with a total outlay of more than Rs. 3.2 Crores), namely, OMAXE Graduate Engineer Trainee programme and Rane NSK Young Manager Programme are also underway.

A new Biz lab was created with the support of AIMA. The lab is equipped with simulations containing pedagogical elements to help student explore, navigate, and comprehend more information about a dynamic business system.

In a move to automate several processes across functions, an Enterprise Resource Planning (ERP) system covering Student Lifecycle Management, Financials, Materials and Asset management, Human Capital Management and Payroll is being implemented.

As the university gives huge importance to the pastoral care, a dedicated students' Wellness Centre has been created to promote holistic healthy lifestyles and to contribute towards psycho-social and socio-cultural mental health for all on the campus.

A Career Guidance and Development Center was established to guide the students on various career options. The aim of this centre is to provide support on campus placements, practice school, career counselling and career development of students.

The year 2018-19 saw 83% placements of eligible students in School of Engineering and Technology and more than 90% percent placements in School of Management. Many of our students opted for higher studies and other careers. This year, more than 150 recruiters from all sectors visited our campus. The average salary packages went up to 4.6 lakhs for B.Tech. and Rs. 7.9 lakhs for M.B.A. students, whereas for B.Com/BBA, it remained low at Rs. 3.00 lakhs per annum.

The university encourages students to enhance their personalities through participation in various technical, sports, cultural and social activities. There are 22 student clubs in BMU, each headed by a faculty advisor.

In 2018-19, various events such as coding competitions, hack BMU, machine learning workshops, NX 10 design workshops, ANSYS simulation workshops, IC engine workshops, Simscale sponsored workshops, and SAE Supra events were organized. The students of Automobile Club participated in the national Eco kart championship. Other events such as Model-UN, Hult prize, Money Muffin, Masterchef, Grappling tournament, Chai-pe-charcha, Daan Utsav, and many others were also organised by the respective clubs.

Nandit Mehta won the first prize in HackMIT competition at MIT, USA for best use of DocuSign's eSignature API.

Our students also participated in various annual sports events outside the university and won prizes. The university team won the first position in Hero's Challenge 2018 Cricket competition and also in Kabaddi held in October 2018. Harjeev Singh of BBA won first position in Badminton and Sreevatsa

of B.Tech won first position in Tennis competition in Breeze fest organised by Shiv Nadar University.

The university was in the news for most of 2018-19 for earning awards and appreciation. The university won,

- National Employability Award for being amongst the top 10% campuses nationally (Engineering Colleges) by Aspiring Minds

- Best Emerging Higher Education Institute in the North at the 9th Annual Indian Education Awards organised by Zee Business, Economic Times & Entrepreneur Media

- Best Emerging University of the year and the Emerging B-School of the year (north) at 12th Edu-Shine Excellence Awards 2019

The BW Education Leadership Summit Award for the Industry-Academia interface in the Higher Education Institute category.

Our faculty and staff also earned awards and recognitions. These include,

- Akshay Munjal, Entrepreneur of the Year; Service Business Education

- Dr. Ashish Bhardwaj, Cyber Sentinel 2019 Award

- Dr. Payal Kumar, Andre Delbecq and Lee Robbins MSR retreat Scholarship,

- Re-Imagine Education Certificate to Dr. Vishal Talwar, Dr. Jaskiran Arora and Dr. Rik Paul,

- Dr. AK Prasada Rao, Outstanding reviewer award by Acta Materialia and Scripta Materialia.

The university also recognized the contributions made by awarding faculty towards their excellence in teaching, research and mentoring. During 2018-19, the awardees were Dr. Ratna Sanyal, Dr. Subaran Roy, Dr. Sanjay Kashyap, Dr. Sumit Roy and Ms. Rupa Murghai. Further, Dr. Abhimanyu Rana and Dr. Sangita Choudhary were rewarded with Rs. 1.00 Lakh each for research publications in Tier 1 and ABDC journals respectively.

During the year, the BMU Alumni Association and the Alumni board was also established to strengthen our bond with the alumni. The first alumni meet was held in April 2019 to recognize the efforts of our newly baptised alumni. The university continues to embark upon its academic excellence on the pattern of established institutes of excellence in the country.

VICE CHANCELLOR`S MESSAGE

The BMU has traversed a long way in the last 5 years and has established its name through state-of-the-art infrastructure, quality students, highly qualified faculty, innovative pedagogy, focused research and development, and distinctive industrial and foreign institutions partnerships. We are living in the Industry 4.0 era. The technologies such as Artificial Intelligence and Machine Learning, Big Data Analytics, Cloud Computing, Internet of Things, Robotics, Automation, 3-D Printing etc., will define the future generations. Each one of us, irrespective of any academic discipline, must be proficient in these technologies to create a smarter world and we would provide that platform to enable our students to take the leap forward.

Manoj K. Arora
Vice Chancellor

Therefore, we have redefined the academic programmes as well as the academic curricula as per the needs of current technological advancements and industrial revolution. The face to face teaching and online learning will happen in a blended learning environment. We have suitably embedded popular online courses delivered by faculty of foreign universities in the curricula. Adoption of fractional credit system will allow students to have education, training and certification in a seamless manner, which will also provide many opportunities to students to work on live problems and case studies, industrial visits, internships, engagement in research projects, outside classroom activities and international immersion programmes.

Thus, we continue to deliver our academic programmes with a unique blend of national and international perspectives, based on sound fundamentals and strong experiential learning.

The year 2019-20 is going to be a very exciting year for our university. We have started new academic programmes, namely, BA-LLB (Hons), and BBA-LLB(Hons). We have also introduced specialisations in all our B. Tech Programmes in the School of Engineering and Technology. These are; Cyber Security, and Data Sciences and Artificial Intelligence, Automation and Robotics, and Automobile Engineering, and Internet of Things.

We have further strengthened our industry engagement and created next generation relevant courses by not only expanding the existing labs and courses but by starting new ones.

Our executive execution programmes in Women in Leadership and MBA, for Hero MotoCorp continue to be one of the most sought after programmes. We have plans to expand these to participation from other industries. We intend to launch a number of other executive education programmes for industry professionals in all areas of Management, Engineering, Science and Technology. In this regard, we are collaborating with several partners from both India and abroad.

Most of our faculty members at BMU have doctorate degrees and postdoctoral experiences from foreign and Indian universities and continue to work on cutting edge research problems. We aim to create a research and enterprise culture at the campus through increased research funding and industry collaborations; from government agencies and joint research with foreign institutions. The faculty and students have published many research papers in international & national journals as well as conferences, and have also filed patents. This clearly shows our intent to promote research and innovation.

Our students have also excelled in co-curricular and sports activities, and have been involved in many social and community services through clubs and technical societies.

As we strive towards academic excellence and establish our name not only in India but the world, I have high hopes from our students, faculty, alumni, our industry, and international partners. I urge them all to team with me in our pursuit for brilliance.

GOVERNANCE

A. GOVERNING BODY

S. No.	Name	Designation	Membership
1	Mr. Sunil Kant Munjal	Chancellor, BML Munjal University	Chairperson
2	Prof. Manoj Kumar Arora	Vice Chancellor, BML Munjal University	Member
3	Mr. Ankur Gupta	Principal Secretary, Department of Higher Education, Govt. of Haryana	Member
4	Mr. Suman Kant Munjal	Director, Rockman Industries Ltd.	Member
5	Dr. Pawan Munjal	Chairman Managing Director & CEO, Hero MotoCorp	Member
6	Mr. Akshay Kant Munjal	President, BML Munjal University	Member
7	Prof. Pankaj Chandra	Vice Chancellor & Chairman, Board of Management, Ahmedabad University	Member
8	Prof. Pankaj Jalote	Distinguished Professor, Indraprastha Institute of Information Technology (IIIT) Delhi	Member
9	Prof. Gerry George	Dean, Lee Kong Chian School of Business, Singapore Management University	Member
10	Ms. Renu Munjal	Managing Director, Hero FinCorp	Member
11	Mr. Arun Bharat Ram	Executive Chairman, SRF Ltd	Member
12	Prof. Kuppuswamy Anantha Padmanabhan	Professor of Eminence, Department of Mechanical Engineering, Anna University, Chennai	Member
13	Mr. Rajiv K. Luthra	Founder & Managing partner, L&L Partners	Member
14	Mr. Abhay Sharma	Registrar, BML Munjal University	Secretary

B. BOARD OF MANAGEMENT

S. No.	Name	Designation	Membership
1	Prof. Manoj K Arora	Vice Chancellor, BML Munjal University	Chairperson
2	Mr. Ankur Gupta	Principal Secretary, Department of Higher Education, Govt. of Haryana	Member
3	Mr. Akshay Kant Munjal	President, BML Munjal University	Member
4	Mr. Suman Kant Munjal	Director, Rockman Industries Ltd.	Member
5	Ms. Swati Munjal	Director, Strategic Initiatives & Engagement, BML Munjal University	Member
6	Mr. Naveen Parasar	Chief Finance & Account Officer, BML Munjal University	Member
7	Prof. Vishal Talwar	Dean, School of Management, BML Munjal University	Member
8	Prof. M.B.Srinivas	Dean, School of Engineering & Technology, BML Munjal University	Member
9	Prof. Sudip Sanyal	Director, Faculty of Computer Science & Engineering, BML Munjal University	Member
10	Prof. Jaskiran Arora	Assistant Dean, Academic Operations, School of Management, BML Munjal University	Member
11	Prof. Kalluri Vinayak	Assistant Dean, Operations, School of Engineering & Technology, BML Munjal University	Member
12	Mr. Abhay Sharma	Registrar, BML Munjal University	Member Secretary

C.   ACADEMIC COUNCIL

S. No	Name	Designation	Membership
1	Prof. Manoj K Arora	Vice Chancellor, BML Munjal University	Chairperson
2	Prof. Vishal Talwar	Dean, School of Management, BML Munjal University	Member
3	Prof. M.B.Srinivas	Dean, School of Engineering & Technology, BML Munjal University	Member
4	Prof. N S Nigam	Dean, School of Law, BML Munjal University	Member
5	Prof. Sudip Sanyal	Director, Faculty of Computer Science & Engineering, BML Munjal University	Member
6	Prof. Jaskiran Arora	Assistant Dean, Academic Operations, School of Management, BML Munjal University	Member
7	Dr. Nandita Choudhury	Associate Professor, School of Engineering & Technology, BML Munjal University	Member
8	Dr. Kalluri Vinayak	Associate Dean, Operations, School of Engineering & Technology, BML Munjal University	Member
9	Mr. Purushottam C. Kaushik	Head-Strategy and Special Initiatives, M&A, L&T Smart World and Communications	Member
10	Prof. Neela Natraj	Professor & Head, Department of Mathematics-IIT Bombay	Member
11	Prof. Vinay K. Nangia	Professor (Emeritus), NSIT and Former Professor & Head, Department of Management Studies, IIT Roorkee	Member
12	Prof. K R Sarma	Professor Emeritus, International Institute of Information Technology, Gachibowli- Hyderabad	Member
13	Mr. Abhay Sharma	Registrar, BML Munjal University	Member Secretary

D.   FINANCE & FEE COMMITTEE

S. No	Name	Designation	Membership
1	Shri Akshay Kant Munjal	President, BML Munjal University	Chairperson
2	Prof. Manoj K Arora	Vice Chancellor, BML Munjal University	Member
3	Mr. Naveen Parasar	Chief Finance & Account Officer, BML Munjal University	Member
4	Ms. Swati Munjal	Director, Strategic Initiatives & Engagement, BML Munjal University	Member

| 5 | Mr. Abhay Sharma | Registrar, BML Munjal University | Member Secretary |

E. RESEARCH ADVISORY BOARD

S. No.	Name	Designation	Membership
1	Prof. Manoj K Arora	Vice Chancellor, BML Munjal University	Chairperson
2	Prof. N. S. Nigam	Dean, School of Law, BML Munjal University	Member
3	Prof. Vishal Talwar	Dean, School of Management, BML Munjal University	Member
4	Prof. Sudip Sanyal	Professor, Computer Science & Engineering, School of Engineering & Technology, BML Munjal University	Member
5	Prof. A. K. Prassad Rao	Professor, Mechanical Engineering, School of Engineering & Technology, BML Munjal University	Member
6	Prof. O. S. Panwar	Professor, Physics, School of Engineering & Technology, BML Munjal University	Member
7	Prof. Jaskiran Arora	Professor, School of Management, BML Munjal University	Member
8	Prof. Payal Kumar	Professor-FPM, XLRI, School of Management, BML Munjal University	Member
9	Dr. Vinayak Kalluri	Associate Professor, School of Engineering & Technology, BML Munjal University	Member
10	Dr. Nandita Choudhury	Associate Professor, School of Engineering & Technology, BML Munjal University	Member
11	Dr. Subaran Roy	Associate Professor- Economics, School of Management, BML Munjal University	Member
12	Mr. Abhay Sharma	Registrar, BML Munjal University	Member
13	Ms. Suneet Soni	Controller of Examinations, BML Munjal University	Member
14	Mr. Vijay Sethi	Vice President, Hero MotoCorp Ltd	Member
15	Prof. Raghunath Bhattacharya	Adjunct Professor, IIEST, Shibpur, West Bengal	Member
16	Mr. Rakesh Sharma	CEO, TBI, IISER-Mohali	Member
17	Dr. Ashwa Ghosh Ganju	Former Director, Snow & Avalanche Study Establishment (SASE), DRDO	Member
18	Prof. B. R. Mehta	Professor, Indian Institute of Technology-Delhi	Member
19	Dr. Abhimanyu Singh Rana	Assistant Professor-Physics, School of Engineering & Technology, BML Munjal University	Member Secretary

ACADEMICS

ACADEMICS PROGRAMMES

S. No.	Program
1	B.Tech.-Computer Science & Engineering
2	B.Tech.- Computer Science
3	B.Tech.- Electronics & Communication Engineering
4	B.Tech.- Mechanical Engineering
5	B.Tech. Civil Engineering
6	M.B.A
7	B.B.A
8	B.Com (Hons.)
9	Ph.D.

FACULTY & STAFF

FACULTY MEMBERS

SOET

S. No	Name of the Employee	Designation	Qualification	Specializations
1	Manoj K Arora	Vice Chancellor & Professor	Ph.D.	Geospatial Engineering
2	Sudip Sanyal	Professor & Director-CSE	Ph.D.	Artificial Intelligence, Machine Learning and Information Retrieval
3	Vinayak Kalluri	Associate Professor & Associate Dean-SOET	Ph.D.	Product Design, Additive Manufacturing
4	Ratna Sanyal	Professor	Ph.D.	Software Engineering, Natural Language Processing
5	Goldie Gabrani	Professor	Ph.D.	IOT, healthcare, Computer Networks Data analytics
6	A K Prasada Rao	Professor	Ph.D.	Solidification processing of metallic systems and sustainable manufacturing of metallic systems; 3D-printing of metallic materials; Artificial Intelligence
7	Sushil Chandra	Professor	Ph.D.	Industrial Design and Development of Motorcycles
8	Nandita Choudhury	Professor of Practice	Ph.D.	Language and Literature, Communication Theory, Technical Writing
9	O.S. Panwar	Adjunct Professor	Ph.D.	Silicon and carbon-based materials & devices

10	Mohit Sinha	Adjunct Professor	M.Tech.	Communication Systems, Signal/Image Processing, Smart Grid/Metering
11	Yarramaneni Sridharbabu	Associate Professor	Ph.D.	Characterization of Conducting Polymers, High energy heavy ion irradiation of polymers
12	Maheshwar Dwivedy	Associate Professor	Ph.D.	Sustainability studies through systems approaches such as life-cycle assessment to model technological progress and product diffusion
13	Akhlaq Husain	Associate Professor	Ph.D.	Theory and Partial Differential Equations, Spectral Element Methods, Parallel/Scientific Computing
14	Amiya Dash	Associate Professor	Ph.D.	Machine Design, Solid Mechanics, Dynamics of Machine, Bio-Mechanics and Mechanical System Design
15	Rishi Asthana	Associate Professor	Ph.D.	Hydrodynamic Stability, CFD, Mathematical Modelling
16	Ziya Uddin	Associate Professor	Ph.D.	Computational Fluid Dynamics, Soft Computing Techniques, Heat pipes, Cooling of industrial machinery and electronic devices
17	Tabish Rasheed	Associate Professor	Ph.D.	Molecular Spectroscopy, Quantum Chemistry, Organic Electronics
18	Sunil Gupta	Associate Professor	Ph.D.	Cryptography and Network Security
19	Kiran Khatter	Adjunct Associate Professor	Ph.D.	Non-functional Requirements, Software Architecture Intrusion Detection, Data Mining, Machine Learning
20	Sonu Kumar	Assistant Professor	Ph.D.	Advanced Manufacturing, Automation
21	Amarnath Bheemaraju	Assistant Professor	Ph.D.	Organic Electronics, Materials Chemistry and Organometallic chemistry
22	Ashok Kumar	Assistant Professor	Ph.D.	VLSI testing and design for testability, Memory system design, Secure Scan and Low Power VLSI design
23	Nishtha Phutela	Assistant Professor	M.Tech.	Distributed Systems, Wireless Systems with focus on WiFi Networks Optimization
24	Satyendr Singh	Assistant Professor	Ph.D.	Natural Language Processing

25	Ranjib Banerjee	Assistant Professor	Ph.D.	Nonlinear Dynamics & Chaos Synchronization, Computational Mathematics and Complex Network
26	Neeraj Kumar Sharma	Assistant Professor	Ph.D.	Finite Element Modeling of Composites, Thermal and thermo-mechanical modeling of composite behavior, Fabrication and characterization of metal matrix composites
27	Nirupama M.P	Assistant Professor	Ph.D.	Vacuum Nano Electronics and Devices, Aerospace, VLSI Design and Fabrication
28	Ranbir Singh	Assistant Professor	Ph.D.	Mechatronics & Automation, Flexible Manufacturing, Design, Industrial Engg. & Manufacturing, Instrumentation
29	Surya Prakash	Assistant Professor	Ph.D.	Robust Optimization and AI in Manufacturing, Industrial Engineering and Technology Management, Supply Chain Risk Management
30	Purnendu Pandey	Assistant Professor	Ph.D.	IoT (Internet of Things), Cyber Security, Machine Learning, Adhoc Networks, Sensor Networks, Network Coding in Wireless Networks
31	Shuvabrata Bandopadhaya	Assistant Professor	Ph.D.	Communication systems
32	Sharisha Shanbhag	Assistant Professor	M.S.	Image processing, computer vision and pattern matching
33	Soharab Hossain Shaikh	Assistant Professor	Ph.D.	Computer Vision/Image Processing
34	Adnan Hussain	Assistant Professor	M.Tech.	Vulnerability Analysis of Reinforced Concrete Structures, Development of Fragility Curves, Risk Assessment
35	Rajesh Yadav	Assistant Professor	Ph.D.	D2D Security in 5G Technology, Network Slicing in 5G Networks
36	Brij Bihari Dubey	Assistant Professor	Ph.D.	Wireless Networks, Mobile Ad-Hoc and Sensor Networks, Delay Tolerant
37	Sumit Roy	Assistant Professor	Ph.D.	Internal Combustion Engine and Emissions, Alternative Sources of Energy for Transportation
38	Sanmitra Barman	Assistant Professor	Ph.D.	Photocatalysis, Chiral catalysis for the synthesis of pharmaceutically important molecules

39	Anubhav Agrawal	Assistant Professor	Ph.D.	Power Electronics and Drives
40	Pradeep Kumar	Assistant Professor	Ph.D.	Cloud Computing, Security, GIS
41	Kamal Kant Jain	Assistant Professor	Ph.D.	Concrete Technology, Construction Management, Sustainability and Durability of RC Structures, Application of Data Analytics in Construction Industry, Green Buildings
42	Suchitra Rajput Chauhan	Assistant Professor	Ph.D.	Water Remediation (Degradation of Textile dye), Superconducting wires, Thin Films, Memory alloys, Spintronics
43	Jyoti Pruthi	Assistant Professor	M.Tech.	Machine Learning, Theory of Computation, Mobile Application Development
44	Mukesh Mann	Assistant Professor	Ph.D.	Fuzzy Logic, Optimization Algorithm, Software Engineering
45	Amarjit Roy	Assistant Professor	Ph.D.	Image Processing, Impulse Noise Removal, Soft Computing
46	Atul Mishra	Assistant Professor	M.Tech.	Natural Language Processing, Machine Learning, Software Engineering
47	Abhishek Jindal	Assistant Professor	Ph.D.	Pavement Materials, recycled Materials, Concrete technology, Traffic Engineering, Pavement Design and Analysis
48	Ajay Kumar Sood	Assistant Professor	Ph.D.	Drag reduction in turbulent channel/pipe flows, large eddy simulations, DNS, Fluid structure interactions, hybrid turbulence models
49	Shalini Asrani	Assistant Professor	M.Tech.	Construction Management for Sustainability
50	Arijit Maitra	Assistant Professor	Ph.D.	Computational Physical Chemistry, Materials Science, Biophysics
51	Bipin Singh	Assistant Professor	Ph.D.	Bioinformatics, Computational Biology and Chemistry, Biomedical data analysis
52	Abhimanyu Singh Rana	Assistant Professor	Ph.D.	Spintronics, Low dimensional materials, Resistive Switching Devices and Memristors, Materials for energy harvesting and storage, Electric Field Effects in Complex Metal-Oxides
53	Rajiv Dey	Assistant Professor	Ph.D.	Internet of Things, Control Systems

54	Meenakshi Agarwal	Assistant Professor	Ph.D.	Digital Filters, Digital Circuits, Digital Signal Processing, Solar energy
55	Puppala Harish	Assistant Professor	Ph.D.	Renewable Energy, Geographic Information Systems, Facility Planning
55	Devanjali Relan	Assistant Professor	Ph.D.	Medical Imaging, Biomedical engineering, Machine learning
57	Deepti Sharma	Assistant Professor	Ph.D.	Different Styles of Communication, Cross Cultural Communication, English Literature, New Pedagogies in Language Learning
58	Nallan Chakravartula Kaushik	Assistant Professor	Ph.D.	Tribology, Metals and Composites, Materials Behaviour, Material Processing
59	Debajyoti Ghosh	Adjunct Assistant Professor	M.Tech.	Query algorithms in road network for location based services
60	Poonam Sangwan	Faculty Associate	M.Tech.	Computer Science & Engineering
61	Vijay Prakash Sharma	Faculty Associate	M.Tech.	Mechanical Engineering
62	Lalit Kumar Sharma	Faculty Associate	M.Tech.	Manufacturing Engineering
63	Monika Mokan	Faculty Associate	M.Tech.	Computer Science & Engineering

SOM/SOEC

S. No	Name of the Employee	Designation	Qualification	Specializations
1	Vishal Talwar	Professor & Dean-SOM	Ph.D.	Customer portfolios, Marketing resource allocation and Consumer ethic
2	Jaskiran Arora	Professor & Associate Dean-SOM	Ph.D.	Corporate Finance, Corporate Governance, Earnings Management, Micro Finance and Self Help Groups
3	Davinder Singh	Associate Professor & Assistant Dean- SOM	MBA	Open Innovation, Measuring Innovation Capability, Absorptive Capacity
4	Payal Kumar	Professor	Ph.D.	Negative mentoring, Gender and leadership, Entrepreneurship, Diversity and Inclusion
5	Anusree Paul	Associate Professor	Ph.D.	Industrial Economics, Econometrics, International Economics

6	Subaran Roy	Associate Professor	Ph.D.	Economic growth, Foreign Direct Investment, International Trade, International Finance, Middle East Economies
7	Swetasree Roy	Associate Professor	Ph.D.	Political Economy, Institutions, Conflict, Environment Policy Making
8	Sangita Choud-hary	Associate Professor	Ph.D.	Earnings Management, Financial Markets, Behavioral Finance
9	Rik Paul	Associate Professor	Ph.D.	Service Value, Customer Satisfaction, Customer Loyalty, Atmospherics, Anthropomorphism, Innovative Pedagogy
10	Chirag Malik	Associate Professor	Ph.D.	Business Analytics
11	Ruchi Garg	Assistant Professor	Ph.D.	Sensory Marketing, Sustainability, Consumer Brand Relationship
12	Ritu Chhikara	Assistant Professor	Ph.D.	Sustainable Marketing, Sensory marking
13	Vaishali Sharma	Assistant Professor	Ph.D.	Remanufacturing, Supply Chain, Marketing, International Business
14	Divya Choudhary	Assistant Professor	Ph.D.	Operations Management
15	Jaya Ahuja	Assistant Professor	Ph.D.	Virtual Teams, Sustainable HRM, Emotional Intelligence, Organizational Climate & Work life integration

SOL

S. No	Name of the Employee	Designation	Qualification	Specializations
1	N S Nigam	Professor & Dean-SOL	Ph.D.	Tax law and Commercial law
2	Mool Chand Sharma	Professor Emeritus	Ph.D.	Juridical Sciences
3	Kavita Chawla	Assistant Professor	Ph.D.	Contract Law, Company Law, Competition Law, Property Law, Commercial and business laws
4	Vivek Sehrawat	Assistant Professor	Ph.D.	Law of Torts, International Law, International Humanitarian Law, National Security, Autonomous weapon systems, Privacy Law
5	Shiladitya Rakshit	Assistant Professor	LLM	Criminal Law and Family Law/ International Investment Law

LIST OF OTHER FUNCTIORNARIES

S.No.	NAME	DESIGNATION NAME	DEPARTMENT NAME
1	Swati Munjal	Director- Strategic Initiatives and Student Engagement	Admissions
2	Dr. Vandana Suhag	Dean Education Quality	Education Quality
3	Col. Mohit Bawa	Dean, Student Welfare & Administration	Administration
4	Abhay Sharma	Registrar	Registrar Office
5	Ashish Bharadwaj	Director, IT, Digital & Innovation	Information Technology
6	Santanil Dasgupta	Director, Corporate Relations	Corporate Engagement
7	Gurbir Singh	Director, Sports	Sports
8	Naveen Parasar	Chief Finance and Accounts Officer	Finance and Accounts
9	Suneet Soni	Controller of Examinations	Examination
10	Amit Sharma	Director	Admissions
11	Dhanesh K. Gaur	General Manager	Purchase
12	Ashu Diwan	Head, Student Outreach	Admissions
13	Chetan Khurana	Chief Manager	Corporate Engagement
14	Anubhav Sharma	Chief Manager	Corporate Engagement
15	Gunjan Lalchandani	Vice President	President's Office
16	Achla Bhatia	Senior Advisor Medical Services	Administration
17	Vasudeva Rao Yellapu	Regional Head (South India) -Corporate Relations	Corporate Engagement
18	Vinod Parkash	Senior Manager	Administration
19	Alipta Dutta	Senior Manager	Corporate Engagement
20	Anupam Ralhan	Senior Manager	Administration
21	Ajay Kumar Yadav	Senior Manager	CAMD
22	Shuchika Vinayak	Senior Manager	Admissions
23	Charu Joneja	Senior Manager	Marketing
24	Charu Sakhuja Yadav	Senior Manager	Human Resources
25	Sangeetarao Nanditha	Senior Counsellor - Admissions	Admissions
26	Rupa Murghai	Senior Counsellor	Administration
27	Dr. Anuj Kumar Rana	Deputy Registrar	Registrar Office
28	Ashok Kumar Upadhyay	Deputy Librarian	Library
29	Jiwan Kumar Jha	Deputy Manager	Information Technology
30	Manish Sharma	Deputy Manager	Purchase
31	Rupesh Kumar Singh	Deputy Manager	Finance and Accounts
32	Jitendra Prakash	Deputy Manager	Admissions -Student Outreach

33	Kashif Naeem	Deputy Manager	Admissions -Student Outreach
34	Harish Chandra	Deputy Manager	Human Resources
35	Kudrat Sharma	Manager	Corporate Engagement
36	Bharat Bhushan	Manager	Admissions -Student Outreach
37	Priyanka Vijaybhan Singh	Manager	Corporate Engagement
38	Arun Sharma	Assistant Manager	Information Technology
39	Devender Kumar Nehra	Assistant Registrar- Acad Ops	SoM-Program
40	Amrita Kumar Saha	Assistant Editor	SoM - Marketing & Communication
41	Shobhit Andley	Deputy Warden	Administration
42	Sandeep Kumar Singh	Assistant Manager	Information Technology
43	Binda Puri	Assistant	Administration
44	Ankur Panchal	Assistant Manager	Admissions
45	Binu Zacheriah	Assistant Manager	Admissions
46	Shyam Singh	Assistant	Library
47	Seema	Academic Coordinator	SoET – Program
48	Shailenda Pratap Singh	Assistant Warden	Administration
49	Piyush Chaturvedi	Assistant Engineer- Process Equipment and Maintenance	CAMD
50	Sanjeev Kumar Verma	Assistant General Manager	Finance and Accounts
51	Dalip Kumar	Assistant Manager	Administration
52	Raisha Mukherjee	Assistant Manager	Human Resources
53	Sanjay Kumar	Assistant	Finance and Accounts
54	Bhanu Pratap Kaushik	Assistant Manager	Marketing
55	Indrajeet Kumar Singh	Academic Coordinator	SoET – Program
56	Sanjay Thakur	Assistant Manager	Information Technology
57	Deepak Kumar	Assistant Warden	Administration
58	Wamika Varma	Brand Manager	Marketing
59	Prakash Kami	Deputy Warden	Administration
60	Buddhadeb Das	Assistant Registrar	Registrar Office
61	Amit Kumar	Assistant Manager - Academic Operations	SoM-Program
62	Siddharth Sharma	Assistant Manager	Admissions
63	Rishikesh Tiwari	Assistant Manager	Information Technology
64	Deepa Sharma	Assistant Librarian	Library
65	Sameer Raj Suhta	Examination Coordinator	Examinations
66	Sudhir Dhayani	Executive	Purchase
67	Shree Shyam Singh	Executive	Marketing
68	Amit Kumar Upadhyay	Senior Executive	Finance And Accounts
69	Akarshan Sharma	Executive	Admissions
70	Amit Harit	Senior Executive	Human Resources

71	Richa Nagpal	Senior Executive	Marketing
72	Anuradha Mandal	Counsellor	Admissions
73	Kavita	Office Executive	Library
74	Veeneta Jamwal	Section Officer - Acad Ops	SoET– Program
75	Sandeep Kumar Sharma	Senior Executive	Registrar Office
76	Yogender Singh	Senior Executive	Human Resources
77	Sharad Sharma	Senior Executive	Registrar Office
78	Satish Kumar Pandey	Senior Executive	Examinations
79	Suraj Bhan	Senior Officer	Stores
80	Hira Lal	Engineer	Administration
81	Partha Partim Dhara	Manager	Admissions
82	Inderjeet Singh Basra	Manager	Corporate Engagement
83	Jagadeesh Naga Dev Kanchadapu	Manager	Admissions
84	Deepak Yadav	Fire & Safety Officer	Administration
85	Sunil Budholia	Manager	Administration
86	Deewan Singh Rawat	Manager	Finance And Accounts
87	Surendra Kumar Selwal	Manager	VC Office
88	Neera Sood	Warden	Administration
89	Parmod Kumar	Lift Maintenance Engineer	Administration
90	Dheeraj Kumar	Security Supervisor	Administration
91	Jatin Rana	Sports Officer	Sports
92	Jai Prakash Bhardwaj	Warden	Administration
93	Abhinandan Kashyap	Officer - Admission and Out-reach	Admissions
94	Namrata Tyagi	Processing Counsellor	Admissions
95	Sapna Sharma	Program Manager	SoM-Program
96	Rakesh Kumar Bhardwaj	Manager	Administration
97	Mohit Saxena	Placement Coordinator	Corporate Engagement
98	Deepak Kumar	Warden	Administration
99	Suryabhan Roy	Graphic Designer	Marketing
100	G. Shekar Reddy	Manager	Admissions -Student Outreach
101	Dibakar Paul	Manager	Finance and Accounts
102	Sulekha	Sports Officer	Sports
103	Koshtuba Nand	Program Manager	SoET – Program
104	Nitin Singh	Executive	Admissions
105	Mukesh Kumar Sharma	Executive	Examinations
106	Khushboo Purohit	Counsellor	Admissions
107	Aditi Agrawal	Front Office Executive	Administration
108	Monoj Dutta	Executive Assistant	SoM-Dean Office
109	Priyanka Kalra	Counsellor	Admissions

110	Manisha Rawat	Front Office Executive	Administration
111	Deepika Madan	Senior Counsellor	Admissions -Student Outreach
112	Rajat Rai	Senior Counsellor	Admissions -Student Outreach
113	Rohit Grover	Senior Counselor	Admissions
114	Palak Yogi	Senior Counselor	Admissions
115	Sakshi Sethi	Senior Counselor	Admissions
116	Sumit Kumar	Senior Lab Technician	SoET-Lab
117	Kishan Pal Singh	Senior Lab Technician	SoET-Lab
118	Amit Gautam	Senior Lab Technician	SoET-Lab
119	Mahender Singh	Senior Lab Technician	SoET-Lab
120	Satpal	Senior Lab Technician	SoET-Lab
121	Akash Agnihotri	Senior Lab Technician	SoET-Lab
122	Vivek Kumar	Counsellor	Admissions
123	Jagdish Singh Samant	Counsellor	Admissions
124	Neelam Agarwal	Counsellor	Admissions
125	Pawan Kumar	Lab Technician	SoET-Lab
126	Manisha Devi	Lab Technician	SoET-Lab
127	Pitam Singh	Lab Technician	SoET-Lab
128	Tirath Kumar	Lab Technician	SoET-Lab
129	Yazpal	Lab Technician	SoET-Lab
130	Rajnish Kumar Dhangar	Lab Technician	SoET-Lab
131	Jyoti Yadav	Lab Technician	SoET-Lab
132	Naresh Verma	Lab Technician	SoET-Lab
133	Gopal	Lab Technician	SoET-Lab
134	Jagveer Singh	Lab Technician	SoET-Lab
135	Gora Banerjee	Lab Technician	SoET-Lab
136	Krishna Gopal Sharma	Lab Technician	SoET-Lab
137	Rohtash Kumar	Lab Technician	SoET-Lab
138	Suresh K. Tanwar	Lab Supervisor	SoET-Lab
139	Lalit Kumar	Lab Supervisor	SoET-Lab
140	Kaushlesh Sharma	Lab Assistant	SoET-Lab
141	Vivek Kumar Verma	Executive	Finance and Accounts
142	Abhishek Kumar Ray	Executive	Information Technology
143	Anubha Mahendru	Junior Executive	Marketing
144	Sahil Yadav	Junior Officer	Stores
145	Vandana Malhotra	Executive Assistant- President and Director- Strategic Initiatives And Student Engagement	President's Office
146	Rahul	Executive	Admissions
147	Vikram Singh	Executive	Stores

148	Badri Vishal Shukla	Library Assistant	Library
149	Vipin Kumar	Library Assistant	Library
150	Dhanvarsha	Front Office Executive	Administration
151	Akash Goparaju	Executive - Student Life	Administration

CENTRES & LABORATORIES

1.   **DR. BRIJ MOHAN LALL MUNJAL EXPERIENCE CENTRE**

The centre consists of an autobiographical description of the life and times of Dr. Brij Mohan Lall Munjal depicted in audio and video modes. Pictures exhibiting student life in campus as well as students' projects are displayed. There are also photographs that show our university's association with various industrial organizations.

2.   **CENTRE FOR CAPITAL MARKETS**

- This centre aims to facilitate and encourage-

- Research and teaching in financial markets

- Investment as life skills

- Application of technology in financial services including newer technologies like Blockchain and AI

- Entrepreneurship, an incubator for startup ideas in Financial Literacy, Financial inclusion, Fin tech solutions, Blockchain, Artificial Intelligence and any other related areas

To achieve these objectives, the Centre intends to provide financial markets laboratory to support faculty and scholars in teaching and conducting research on Financial Markets, provide TrakInvest.com platform for acquiring and enhancing investment skills, delivering various up-skilling courses linked to industry requirements, launch various faculty development programs and management development programs open to candidates beyond the Campus and constituting a board of mentors who regularly screens new business ideas and incubates the shortlisted ones until they secure a funding.

3. CENTRE FOR ADVANCED MATERIALS (CAMD)

This centre was inaugurated on the 19th November 2018. It consists of an autobiographical descript-
The centre is equipped with several scientific instruments in three major research facilities:

1. Materials Characterization Lab

2. Thin-films and Measurement Lab

3. Device and Fabrication Lab

Material Characterization lab houses instruments such as Scanning Electron Microscope (SEM), X-ray Diffractometers (XRD), Optical profilometer and Scanning Near-field Optical Microscope (SNOM) and Confocal Raman imaging.

Thin Films and Measurement lab includes instruments such as probe station, keithley 4200 semicon-ductor characterization system, Physical Vapor Deposition (PVD) and Chemical Vapour Deposition (CVD) systems.
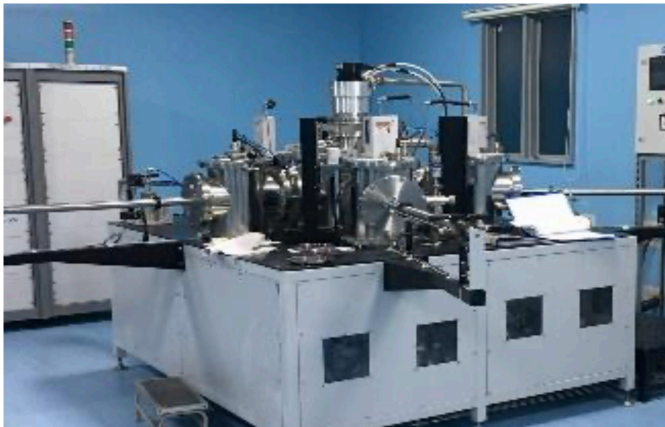
PECVD cluster tool

PECVD

E-Beam and Thermal

Raman, SNOM, PL, AFM System

RF-DC Cathodic Arc

RF-DC magnetron sputtering

4.   SIEMENS CENTRE OF EXCELLENCE IN AUTOMATION, ROBOTICS AND MECHATRONICS (COE_ARM)

The Centre is equipped with several scientific instruments in seven different laboratories,

Product Design and Validation Lab

This facility generates the capability to design a product and validate the design by automating the process of designing, drawing and analyzing with digital tools and curriculum prepared by renowned professionals from SIEMENS PLM. Students can learn and perfect the engineering of conceptualizing and designing a new product right from the scratch and validate it using FEA. The following softwares are installed:

* SIEMENS NX-10.0(Including bundle of CAD, CAE)

* FEMAP(CAE)

* TEAMCENTER(PLM)

Robotics Lab

The lab is equipped with standard training cells comprising of KUKA (A German manufacturer of industrial robots and solutions for factory automation) KRC-4 industrial robot with required auxiliary equipment. This training cell is capable of performing multitude of operations used for Arc welding, Material handling and Spot welding and other essential operations used by the automobile, food and beverages, packaging and other manufacturing / production industries.


Pneumatics and Hydraulics Lab

The transmission and control of power by means of fluid under pressure is becoming increasingly used in all branches of industry and it is also used in the development of automation solutions. This lab has a set of Pneumatic/Hydraulics, Electro Pneumatic and Hydraulics equipment which is used to impart training on fundamental pneumatic and hydraulic components and the process to design the pneumatic and hydraulic circuits on kit and on Fluid Sim software.

CNC Lab

CNC lab is used to provide skills on fundamentals and principle of machining, part programming, tooling and production technology for the integration of automated systems for the ease of production industry. The lab has real time CNC controller, two CNC turning kits and 2 CNC Milling Kits and 1 replica of VMC to write codes for the product design. It also houses SINUMERIC software for virtual training practice.
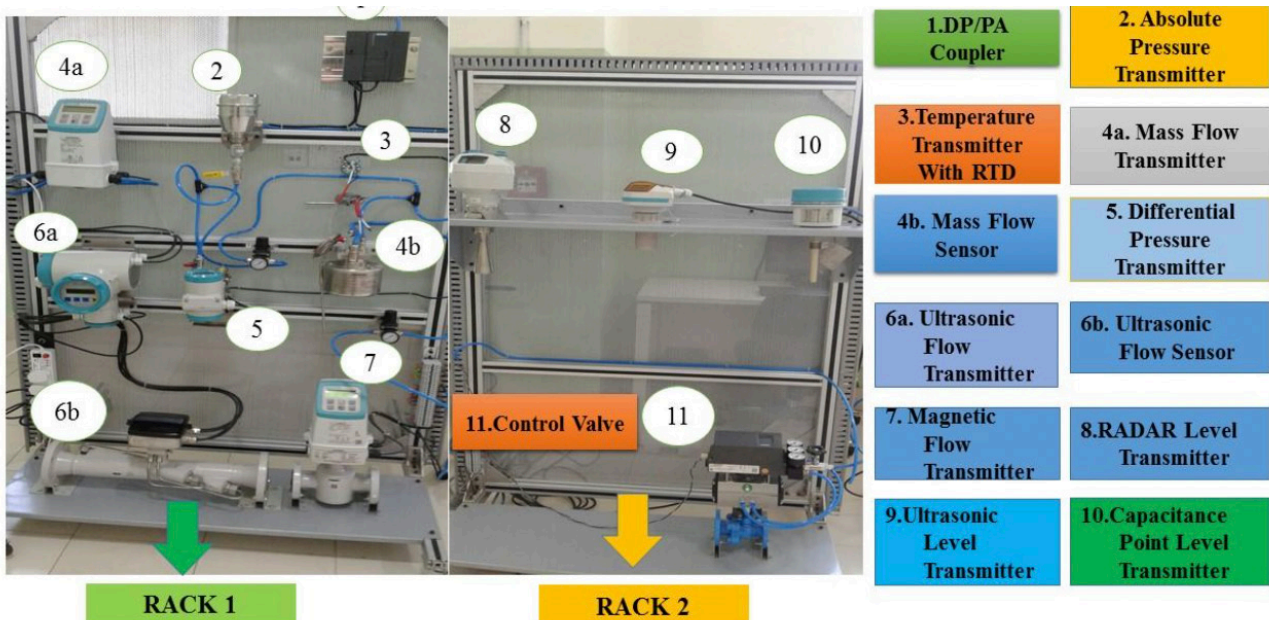
Mechatronics Lab

| Feeder Station | Inspection Station | Buffer Station | Process Station | Sorting Station |
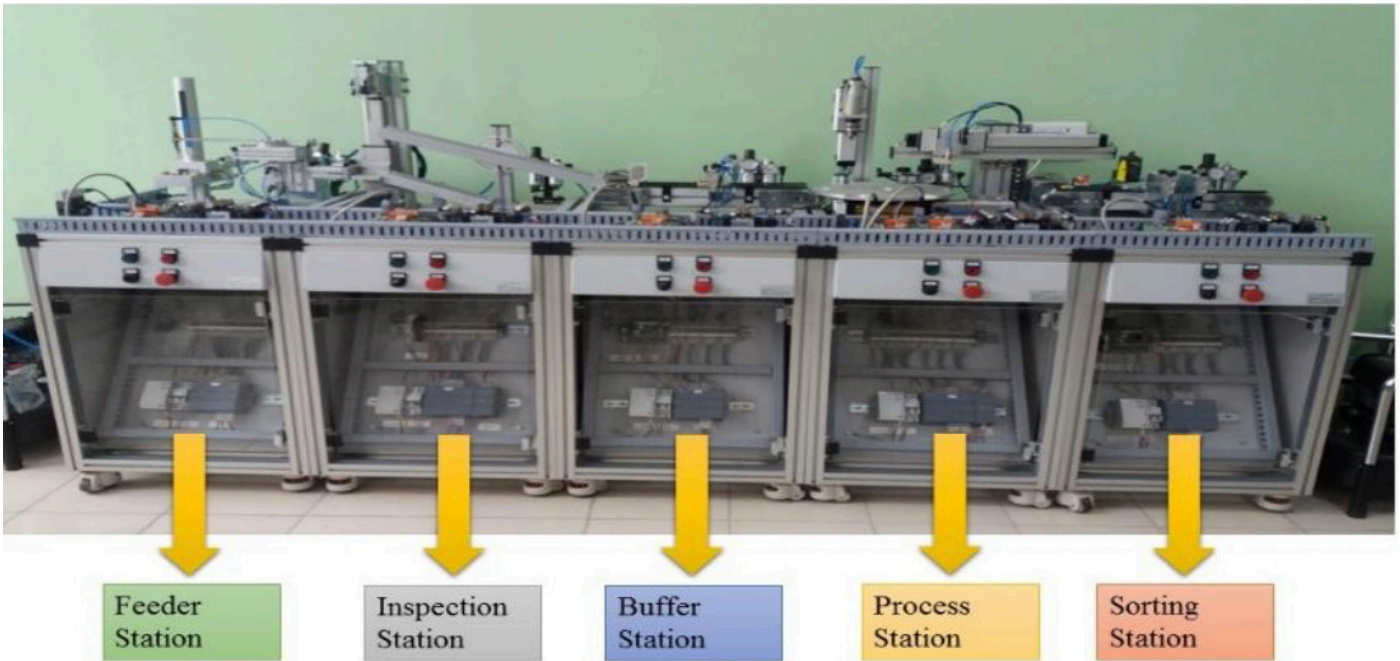
Mechatronics Lab is equipped with two sets of 5 station Industrial application prototype for understating the application of mechatronic concept. These are used to provide skills on basic concepts and implementation of computers, electronics, mechanical drives and systems, programmable logic controllers, sensors and transducers, hydraulic, pneumatic and electric drives design of mechanical structure and mechanism.

Process Instrumentation Lab

1.DP/PA Coupler	2. Absolute Pressure Transmitter
3.Temperature Transmitter With RTD	4a. Mass Flow Transmitter
4b. Mass Flow Sensor	5. Differential Pressure Transmitter
6a. Ultrasonic Flow Transmitter	6b. Ultrasonic Flow Sensor
7. Magnetic Flow Transmitter	8.RADAR Level Transmitter
9.Ultrasonic Level Transmitter	10.Capacitance Point Level Transmitter

RACK 1   RACK 2

Process Instrumentation lab is designed to enable maintenance personnel to carry out commissioning, calibration and maintenance of the typical devices used for measurements and control in industrial systems. These are equipped with 2 types of industrial Pressure sensor, 3 types of Level sensor, Temperature sensor, 3 types of flow sensor and control valves with smart positioner and PCS7. The facility is used by the students to train on how to program, calibrate and monitor the sensors using HART and Profibus modules and design the SCADA system to monitor and control the process.

Automation Lab

Automation lab is equipped with 6 S7-1200 PLCs and 1 S7-1500 PLC with KTP HMI-700 Basic and SCADA system and used to train students about the different hardware arrangements of PLC, application of PLC, HMI and SCADA and the process to program a PLC using different programming languages. PLC has a wide variety of applications in manufacturing industry to automate the conventional arrangement in to automated systems to ease the manufacturing process.

Electrical Lab

Electrical lab is equipped with electrical devices like ACB, MCCB, Drives AC/DC, Soft starter, Type two coordinating kits, Timer relays kit and Simocode. Here students are trained about the fundaments of basic switch gear, commissioning of AC/DC drives and basic trouble shooting.

5.   HIGH PERFORMANCE COMPUTING FACILITY

The University has a high-performance compute cluster that can process data and perform complex calculations at high speeds – up to 4 TeraFlops. The cluster runs on the CentOS operating system and consists of a control node and 5 compute nodes each having 96 GB primary memory and two Xeon processors with multiple cores processing each, together accessing 24TB of storage over fibre channel. Applications running on this include Gromacs to perform molecular dynamics, i.e. simulate the Newtonian equations of motion for systems with hundreds to millions of particles; Comsol Multiphysics for cross-platform finite element analysis; and Ansys for engineering simulations, among others.

6.   SCIENCE AND ENGINEERING LABORATORIES

A. CIVIL ENGINEERING

Civil Engineering Department at BML Munjal University (BMU) is equipped with several laboratory equipment. These equipment and labs are primarily used to facilitate the UG students with experiential learning opportunities in various sub-domains of Civil Engineering Practice. Available facilities and expertise are also useful for implementation of academic and industrial projects, and research.

Civil Engineering Laboratories consist of both conventional and modern equipment. For example, Highway Engineering Lab is equipped with both conventional machines, such as: Los Angeles Abrasion Testing Machine, Impact Value Testing Machine, etc.; and, modern day equipment, like: Marshal Stability Test Equipment, CBR Testing Equipment, and many more.

This equipment helps students to learn about and measure key mechanical properties of soils. Furthermore, student ascertain and study engineering properties of soil with the help of equipment, like: Swelling Index Machine, Standard Proctor Test Equipment, Permeability Test Apparatus, etc. Concrete Technology Lab is equipped with all tools and machines typically required for preparation and investigation of characteristic properties of Concrete.

B. MECHANICAL ENGINEERING

I) CAE LAB (FEA & CFD)

The Computer Aided Engineering lab is equipped with FEA research version software supported with HPC capabilities. B.Tech. course-curriculum tasks are regular activities in the lab. Ansys enables users to create product & structure simulations & allow users to test & verify components with customizable environmental variables.

II) CAD LAB

CAD lab (Computer lab) is equipped with over 120 machines (PC) installed with 2-D drafting (Autodesk AutoCAD) and 3-D modelling (Siemens PLM software NX) software packages. Autocad has capability to import dxf, dwg, dws, dwt, wmf, sat etc. & export files into dxf, dwg, 3ds, fbx, pdf, dwf, bmp etc. file formats. Siemens NX software is a powerful tool to deliver fast & efficient CAD service. It enables design, simulation & manufacturing solutions for CAD-CAE-CAM. It supports every aspect of product development, right from idea conceived to concept design to manufacturing through digital engineering and manufacturing support. NX CAD file has encoding, appearance, scene & animation information. This is the place where design, drawing & modeling of all the students' projects are done. Electric car, SAE projects, JoE projects, Drone design etc have been worked in the lab, with which students have won several prizes.

III) ADDITIVE MANUFACTURING LAB

This is one the most advanced labs of the university. The lab is equipped with 3-D printing facility, micro machining facility & a robotic arm with high level programming capability.

IV) WORKSHOP

Workshop is fully equipped with CNC Lathe, Vertical Machining Centre, EDM, Wire-EDM, Injection Moulding Machine, High Precision Lathe, Centre Lathes, Universal Milling Machine, Shaper, Vertical Drilling Machine, Radial Drilling Machine, Grinder, Surface Grinder, different Welding set ups (TIG, MIG, Gas, Spot welding & Electric Arc Welding), Electric Furnaces, Bend Saw, Jig Saw, Wooden

Lathe, Laser Cutting Machine, Power Press, Bending Machine, Shearing Machine, Power Hack Saw, casting & moulding tools & equipment's, smithy shop tools, forging tools, sheet metal working tools, fitting tolls & carpentry tools, to carry out different manufacturing activities on the shop floor. For quality inspection we have metrology & inspection tools like measurement tapes, engineering scales, Vernier Calliper, Height Gauge, Screw Gauge, Standard Wire Gauge, inside & outside calliper, level indicators, sine bar, bevel protector, dial indicators, plug gauges, etc. We also have advanced tools & machines like Vision Measurement Machine (VMM), Surface Profilometer, Energy Meter, Dynamo Meter, thermal imaging camera, microscope etc. to carry out various types of research activities. One can manufacture an item/ product in the workshop by any of the process viz. machining (conventional & non-conventional), welding, casting & forging. Sheet metal and carpentry related work can also be carried out as required. Several publications (international journals & conferences) have been resulted by the work/ task/ activity carried out on the workshop floor by the students under esteemed guidance of different faculty members.

V) KINEMATICS & DYNAMICS OF MACHINES LAB

KDM lab is equipped with Shaft Whirling Apparatus, Motorized Gyroscope, Epicyclic Gear Train, Cam & Followers arrangements, Balancing apparatus (Static & Dynamic), Governor apparatus (watt, Porter, Proell & Hartnell type), Screw jack, Universal vibration apparatus to conduct studies & experiments for B. Tech. level. Research activities like vibration & frequency analysis of research materials with varying rotational speeds with different dampers, experimental research to study gyroscopic effects for different materials, masses & dimensions, experimental validations of virtual balancing results (simulation results) & analysis of radius of gyration of different bar materials can be done in the lab.

VI) MATERIAL TESTING LAB

Material Testing lab is equipped with all material testing facilities to carry out material testing tasks for B. Tech, & Ph.D. level. We have Universal Testing Machine (Mechanical & Automatic/ Electronic type) to determine tensile, compressive, bending & strengths and for different materials under given loading limits; Impact Testing Machine to find impact strength of different materials, Hardness testing machines (Rockwell, Brinell & Vickers hardness testing) to determine Rockwell, Brinell & Vickers hardness number of test specimen; Torsion testing machine to calculate modulus of rigidity for test specimens; Fatigue testing machine to determine fatigue strength of test specimen & Load-deflection measuring apparatus to find deflection of simply supported & cantilever beam to conduct B. Tech. curriculum experiments. These set-ups can be used for testing the material for research purpose.

VII) FLUID MECHANICS/ MACHINES & HYDRAULICS LAB
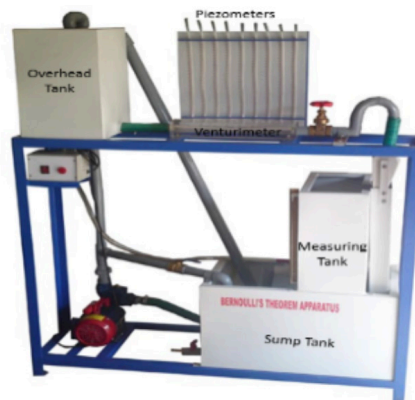
The selection of a pump or turbine depends on its characteristics curves. For the purpose the lab is equipped with different test rigs i.e. Centrifugal pump test rig, Gear pump test rig, reciprocating pump test rig, Kaplan turbine test rig, Francis turbine test rig & Pelton wheel turbine test rig to draw their characteristics curve. Other apparatus such as Metacentric height apparatus to determine metacentric height, position of center of buoyancy, metacenter & center of gravity of ship model; apparatus to verify Bernoulli's theorem, Reynolds apparatus to determine the flow types (turbulent or laminar type), Pitot tube apparatus to find fluid velocity flowing through a circular tube, apparatus to measure head losses in different pipe fittings and sudden enlargement & contraction of pipe cross-sectional areas.

VIII) AUTOMOBILES LAB

Automobile engineering is supported with two different labs. First is the Hero sponsored lab is equipped with cut sections of different two-wheeler components/ systems for demonstration/visualization. 125 CC, 110 CC & 100 CC SI engines, electric system of a two-wheeler, visual display of bike assemblies & dis-assemblies.

Second is the Shell sponsored lab equipped with four-wheeler automobile components. This includes, Actuator; Air intake system; Axle; Big end bearing (cam shaft bearing); Cam sprocket, cam shaft, rocker arm with hydraulic adjuster; clutch assembly, clutch, oil pump, liner, tappets, sleeves & valve; constant velocity pump; crankshaft, connecting rod, piston & valve; CRDI system – demo board; cut model of alternator, bevel gear box, filter with upper body, FIP, oil pump, car, screw compressor & vane pump..

IX) HEAT & MASS TRANSFER LAB
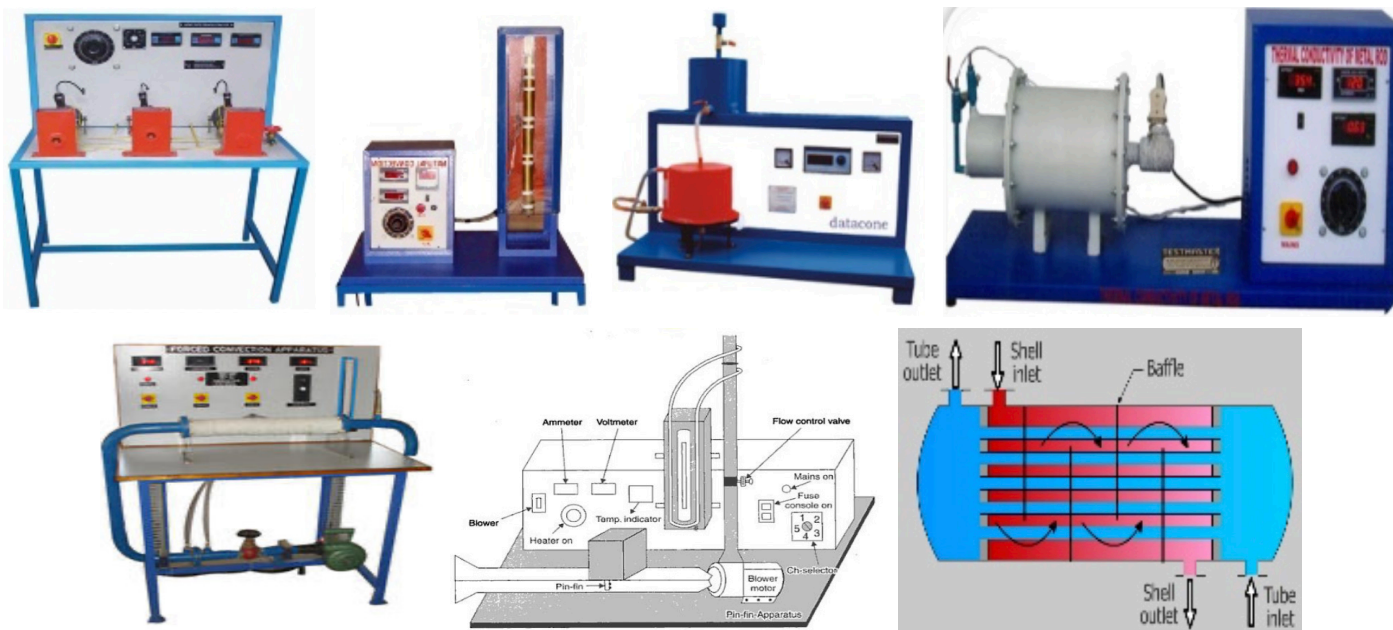
The lab is equipped with apparatus to measure conduction through composite wall with different sections for different heat input value; apparatus to measure drop-wise & film-wise condensation, parallel & counter flow heat exchanger to determine LMTD & overall heat transfer coefficient of heat exchanger, emissivity measurement apparatus to determine mean emissivity of an aluminum plate; heat pipe demonstration apparatus; apparatus to measure natural/free convection etc.

X) INTERNAL COMBUSTION ENGINES LAB

The ICE lab is equipped with models & cut-out sections to study constructional details & working principal of 2-stroke /4-stroke diesel & petrol engine for B.Tech. students. The lab has testing facilities for load test on 4-stroke single-cylinder diesel & 4-stroke multi-cylinder petrol engine; heat balance test on 4-stroke single-cylinder diesel & 4-stroke multi -cylinder petrol engine; Morse-test on multi-cylinder petrol engine; performance & combustion test in addition to emission test on 4-stroke single-cylinder diesel & multi-cylinder petrol engine; to determine flash point and fire point of a lubricating oil; to determine viscosity of the oil and to determine the calorific value of gaseous fuel (LPG), solid & liquid fuel.

C. CHEMISTRY LAB

The chemistry lab was established with the main objectives; (1) creating awareness about various chemical processes that we come across in our day to day life and (2) introducing methods to estimate the nature and amount of chemicals present in various substances we use in our daily lives ranging from bathroom cleaner, dairy products to cement. The lab has been successful in achieving these objectives by (a) enabling undergraduate students at BMU perform various reactions, and (b) encouraging them to come up with methods for the estimation of chemicals.

Double beam UV-Vis spectrophotometer

In addition to the conventional experiments students typically are encouraged to find solutions related to day to day problems such as recycling the waste RO water and purification of particle loaded air. These projects furthered students' understanding, applied thinking and out-of-box thinking.

D. PHYSICS LAB

Dark room

Automatic street lighting system

The Physics lab is designed to cater to the needs of undergraduate students and also to provide them with useful space and infrastructure for hands-on project work. The experiments introduced are kept in line with the topics taught in the class. The projects done by the students were designed were related to their Physics course and provided useful insights on the engineering applications of Physics concepts.

E. BLOOMBERG TERMINAL LAB

In today's fast-changing digital marketplace, real-world experience will best prepare students for the world that awaits outside the classroom. For students the advantages of having access to Bloomberg are clear. Today's finance graduates must be both intellectually and technically savvy to succeed beyond the classroom. Bloomberg helps to learn how to analyse financial markets, assess economic scenarios and interpret the key news developments that impact the global economy better. Watching the interaction of world events and market behaviours in real time and acquire marketable skills improves the odds of landing the job students aspire.

At BMU the students of MBA having specialization courses like Fixed Income, Equity Analysis, and Commodity etc. use the terminal. For a course, 3 to 4 lab sessions per course is required.

F. AIMA BIZLAB

AIMA Bizlab is a first of its kind virtual lab for management students. Using the AIMA Bizlab software, students experiment with various management strategies and tactics on the given scenario. Bizlab experiments present scenarios that require application of concepts being covered in the BBA and MBA curricula. It therefore helps to develop an integrated perspective of different aspects of management.

G. LANGUAGE LAB

Language labs are audio and audio-visual systems that help students learn new languages through listening and speaking. English language labs are designed to provide the learners with a strong platform for practical training in the language.

BMU uses the software Words Worth in the Language Lab. The Words Worth Adult Learners programme tailored to the needs of learners of higher learning institutions, is designed to run parallel to the academic syllabus for graduation.

Structured through three levels, each level is packed with 70 to 80 hours of intense interactive training, through rich audio-visual content alternating between ILT (Instructor-Led Training) and CBT (Computer-based training) sessions. These levels, respectively meet the language skill benchmarks set by the CEFR for Elementary, Intermediate and Advanced levels of language. The program uses lessons like listening comprehension and pronunciation practice to prepare students for using English in a professional setting.

H. OTHER KEY ACADEMIC INFRASTRUCTURE

1. PROPEL-THE INCUBATOR
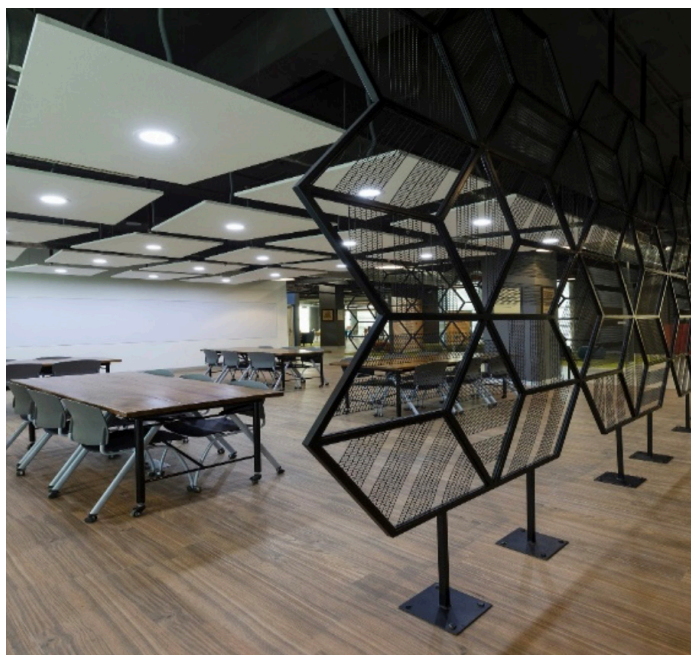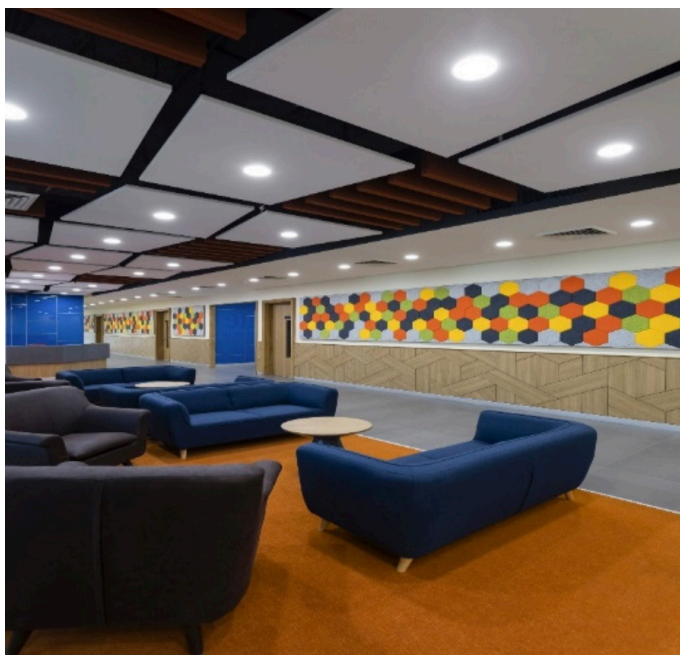
BMU's incubator PROPEL consists of the following four initiatives, each of which is driven by a group of 2-3 faculty members of the University:

Incubation Support: This is a student led body responsible for creating an entrepreneurial culture across the University. Their mandate is to conduct business plan/business idea competitions, workshops, invited industry talks by experts etc.

Student Entrepreneurship: The primary role here is to seed ideas of entrepreneurship within the student community by conducting programs, and to mentor/advise student entrepreneurs on their business ideas through 1-1 mentoring and/or through customized workshops on different topics (financial planning, marketing plan etc.)

Entrepreneurship Support: This primarily focuses on external entrepreneurs (non-University community), and typically these entrepreneurs/startups could either be early stage or late stage ventures. The services offered would range from use of mailing facility and networking opportunity, to specialized enablement workshops in identified areas, as well as assistance with raising finance. Innovation Development: The focus here is on the innovative classroom projects of the students (primarily postgraduate) which assists them with prototype development, product design finally leading to their commercialization. In addition to the above, there is also significant focus on bringing live industry projects to the University, which in effect becomes living laboratories, and providing internship/training opportunities for the students.

2. CENTRAL COMPUTING FACILITIES

BMU has made several strides in ICT – starting with the augmentation of its Internet bandwidth to a 1 Gbps link – thereby more than trebling available bandwidth. The University has also formulated its digital strategy and outlined a transformation plan.

It includes upgradation of internal infrastructure, establishment of an Information Technology Infrastructure Library (ITIL) governance framework, and implementation of several new systems and

platforms for improving operational effectiveness including a new website and admissions platform, a helpdesk/ticketing system, and a University-wide communication and collaboration system.

In a move to automate several processes across functions, an Enterprise Resource Planning (ERP) system covering the areas of student lifecycle management, financials, materials, asset management and procurement and human capital management and payroll has been implemented. This will bring all transactional data across the University into a single database and greatly help in improving service levels and reduce error rates. It will also lay the foundation for increasing regulatory compliance from an accreditation standpoint.

The University also improved its security posture by implementing several controls and auditing capabilities in its internal and external systems which reduces its attack surface and increases compliance.

COMPUTER CENTRE

The University has 7 computer labs with 60 computer terminals in each. Total 463 computer systems are present which are equipped with the following softwares and operating systems.

- Office 365
- NX 10
- MATLAB
- Cadence
- Ansys
- NX Academic Perpetual License CORE+CAD
- NX Academic Perpetual License CAE+CAM

3. IPR CELL

BML Munjal University promotes research and innovation, for which an excellent infrastructure has been laid and an IPR Cell has been formulated. The IPR Cell is headed by Prof. Goldie Gabrani, Mr. Rakesh Sharma, CEO, TBI (Technology Business Incubator), ISSER, Mohali and Advisor- Innovation, Venture and Business development, TERI, Delhi is member IP screening committee and has been regularly guiding IPR activities at BMU. Further, to leverage its infrastructure and other ecosystems in order to encourage its quest towards research and innovation, the university has provided a mechanism to ease research and innovation to its students, faculties and researchers by having Industry IP attorneys to facilitate activities at IPR Cell. The university is also handholding faculty members and students for filing of patents. There were various awareness sessions conducted by the IPR Cell during last 1 year.

4. Career Guidance & Development Centre

Finding a path is very important than walking on one. The Career Guidance and Development Centre (CGDC) at BML Munjal University is dedicatedly paving a way for its students for their holistic development. CGDC is very carefully envisaging a promising pathway for the students to aim, achieve and excel in their careers. Keeping in view BMU's vision, the market challenges and tech savvy world,

we have extended and adopted a dynamic approach which not only encompasses placements but also understands the importance of having a deeper understanding about higher education, students training, seminars, guest lectures, organising conclaves, internships etc for making students engagement a pivotal role in CGDC. For students to be industry ready professionals, CGDC has roped in its Alumni and industry to bridge the disparity between industry & academia. In addition to the above, one of our outsourced counselling partners will guide students on one to one basis through their eminent counsellors for a better perspective.

CGDC facilitates:

- Active engagement with industry

- Industry/Plant visits/ Internships

- In-house technical and soft-skill trainings

- Personalized to individual training needs

- Industry support across course streams

- Practice School (internship) opportunities pan India

- Student's profiling

- Career-counselling

- preparing students technically and strategically for various selection rounds in the companies.

- Speakers from Corporate & Industry

One of the most pertinent and interesting aspects of CGDC is Practice School which embraces industrial visits and internships for the students from the beginning of their 1st semester. This module enables students to develop a practical hand on approach of industry. The faculty and the CGDC team understand student interests, identify suitable projects and companies, and mentor the student throughout the PS. Each student is assigned two mentors - one from faculty and one from industry. The faculty and industry mentor together award a performance grade for the student, which counts towards the final CGPA.

UNIVERSITY INFRASTRUCTURE

INFRASTRUCTURE

PHYSICAL INFRASTRUCTURE

Total No. of buildings in the campus are 13. The details are as follows:

S. No.	Building name
1	Apartment A Hostel
2	Apartment B Hostel
3	Apartment C Hostel
4	Apartment D Hostel
5	Tower Hostel-1
6	Tower Hostel-2
7	Gateway-A & B
8	North Block
9	Library
10	Workshop
11	Staff Support Housing
12	Faculty Housing
13	Laundry Building

North Block Hero MotoCorp Academic Block consisting of faculty block, classroom, labs (UNDER ACADEMIC BLOCKS)

North Block Hero MotoCorp Academic Block

HOSTELS

The campus is equipped to house 2000 students at this moment in the state of art multistoried hostel designed by HOK Architects. It includes three, two and single seater rooms. The hostels have common areas in each floor with entertainment and recreational facilities.

Tower Hostel-1

Tower Hostel-2

Apartment

S.No.	Hostel Type	Number
1	Apartment A	04
2	Tower Hostel-1	02

FACULTY HOUSING

Faculty housing comprises of a total 44 flats with 1, 2, 3 BHK type accommodation. There is also the facility of a gym, tuck shop, laundry and lounge. The University provides staff housing and there is a block with a total of 16 flats.

WELLNESS CENTRE

The Wellness Center is available for all in the campus. The centre provides:

- Life skills and coping strategies for adjustment.
- Personality orientation
  - To attain positive goals that boost inter & intra-personal relations
  - To promote atmosphere of well-being on campus.
- Referral services for

- Specialized therapy sessions

- Yoga

- Meditation

- Alternate therapies

- Psychiatric intervention

- Creating awareness & sensitizing for

    - Early detection, identification & management of problems.

- Collaborating with Round Glass (RG): a platform to achieve and sustain a state of positive mental fitness and wellbeing.

LIBRARY

The Library is in an air-conditioned building with well-furnished spacious reading room create an atmosphere of serenity and thereby inspire intellectual stimulation and research. It has a vast repository of both print and electronic resources that include books, print journals, magazines, project and/or annual reports, newspapers, articles and case studies, courseware and e-databases/e-journals (IEEE,EBSCO Business Source Premier , J- Gate, Bloomberg and Thomson & Reuters, Web of Science) that can be used as references by both students and faculty. The Library is also an institutional member of Developing Library Network (DELNET) and National Digital Library of India (NDLI) for sharing the resources among its member libraries.

The Library is automated with integrated KOHA Library Management Software with RFID Technology and has utilized Information Technology extensively to ensure that resources are accessible at any time. The Digital Library provides a conducive environment for intellectual inquiry by providing user-focused services to obtain and evaluate scholarly information and knowledge. It is connected to high speed internet and intranet network. All activities of Library are computerized, including smart ID cards and On-line Public Access Catalogue (OPAC) to know the status of books at any time. The Library provides various specialized services to the users, i.e., CAS, SDI, News Alert, Reference, Digital Archiving and OPAC.

The library operates from 8 am to 1:30 am

LIBRARY AT A GLANCE

Library Holdings	
No. of Books	18831
Print Journals	62
Back Volumes of Journals	150
Project Reports	429
Non-Print	
CDs/DVDs	754
Databases	6
Online Journals	11000+
Audio Visual Resources	932
Membership	2(DELNET &NDLI)
Electronic (E Books & E Journals)	
E Books	2000
E Journals	11000+
Reference Books	6149
Average No. of walk-ins(Monthly)	9000
Average No. of books issued/returned(Monthly)	1842
E-Databases, Anti Plagiarism & Library Membership	
IEEE (ASPP)	
EBSCO Business Source Premier	
J Gate	
Thomson Reuters	
Web of Science	
Sage Online	
Bloomberg	
Turnitin (Anti Plagiarism Checker)	
DELNET (Institutional Membership)	
National Digital Library of India (Institution Membership)	

LIBRARY E-RESOURCES

S. No.	Database/E-Resources	URL/Links
1	IEEE (ASPP), Spectrum, Conference Proceedings	http://ieeexplore.ieee.org/Xplore/home.jsp
2	EBSCO Business Source Premier	https://search.ebscohost.com/login.asp
3	J-Gate	http://jgateplus.com/
4	Bloomberg	Terminal/Setup Based
5	Thomson Reuters	https://apac1.login.cp.thomsonreuters.net/auth/UI/Login
		(Login Password Based)
6	Sage Online	http://journals.sagepub.com/
7	Manupatra	https://www.manupatrafast.com/
8	Lexis Nexis India Online	https://advance.lexis.com/in?identityprofile-id=5TTDF359373
9	AIR Online Institutional (4 connections)	http://www.airwebworld.com
		(Login Password Based)
10	Web of Science	www.webofknowledge.com
(ANTI PLAGIARISM SOFTWARE)		
11	Turnitin	https://www.turnitin.com/login_page.asp?lang=en_us
		(Login Password Based)
LIBRARY INSTITUTIONAL MEMBERSHIP		
12	DELNET (Developing Library Network)	http://www.delnet.nic.in/
13	National Digital Library of India	https://ndl.iitkgp.ac.in/
OPEN ACCESS RESOURCES		
14	World eBook Library (WEL)	http://community.worldlibrary.in/?AffiliateKey=NDL-YF1761
15	South Asia Archive	http://www.southasiaarchive.com/
COURSEWARE/MOOCs		
16	NPTEL	https://nptel.ac.in/resources.php
17	SWAYAM	https://swayam.gov.in/publiccourse
18	E-PATHSHALA	http://epgp.inflibnet.ac.in/
19	SWAYAM PRABHA	https://www.swayamprabha.gov.in/
INSTITUTIONAL REPOSITORY		
20	Digital Resource Centre	http://drc.bml.edu.in:8080/jspui/

MESS, EATING AND SHOPPING OUTLETS

The University has two student messes across the campus. These messes cater for refreshment and eatables to the students. Both messes are spacious and have comfortable seating arrangements. Both messes serve four meals during the day namely breakfast, lunch, evening tea & snacks and dinner. All meals are served as buffet with the two major meals having choices of North & South Indian Meals. Complaints and suggestions, if any, are always welcome from the students for the improvement in services. For this the Mess Committee has active student members and is empowered to handle the day to day affairs of the messes like menu planning, quality monitoring etc. With students from all over India and beyond – we ensure that we are sensitive to dietary restrictions and preferences. BMU students can avail a mix of North Indian and South Indian cuisine options from the two messes.

Hostel Mess-Lite Bite Food

Hostel Mess - D-Café

Apart from this, the University has some eating joints also like Delicious, D-Café, Baker Street, Dhaba, Fast Food Stalls etc.

Delicious: This multi-cuisine café has meal and snack options ranging from Indian to Chinese & Continental and has its own bakery. It is - being run by Lite Bites Food, who brought in their very popular brands of Zambar & Street food from Punjab Grill.

Dhaba: You will find students and often faculty too at our Dhaba which offers tandoori style food.

Fast Food Stalls: Since the beginning of this academic year, we have brought in Lazeez Rolls & US Pizza who provide their interesting & varied fare to the students.
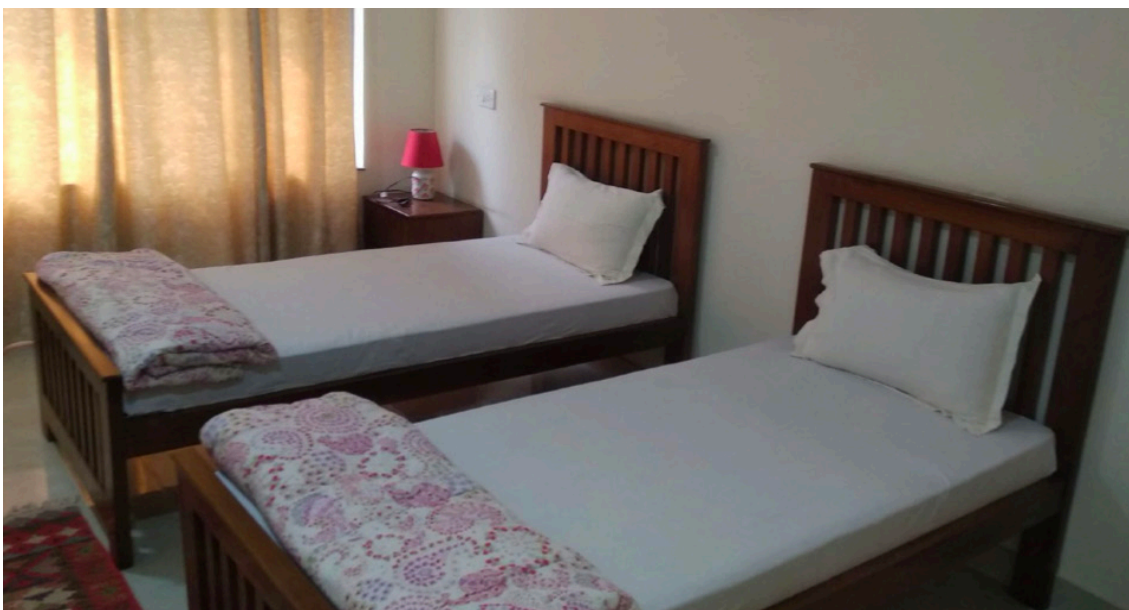
CRECHE

The creche is located on ground floor of the faculty housing block. A lady employee has been appointed as the creche caretaker. Any faculty / staff may use creche facility for their children up to the age of 6 yrs. The timings are from 9 AM to 5:30 PM on all working days.

GUEST HOUSE

University has 39 AC rooms for its guests with a capacity to accommodate 69 persons.

SPORTS FACILITIES

At BMU, we believe that education is about the all-round growth of the student and hence we encourage all students to actively participate in sporting activities. It is our conviction that young students need to learn life skills to prepare to handle the rumble-tumble of the harshly competitive world; and sports provide the perfect opportunities for growing to be a team player, disciplined, healthy, balanced and hard-working person. At BMU we treat the sports fields as tools of instruction, just as smart learning tools of academic learning like computers, audio visual, e-books, e-library and internet. We make students aware of and provide direct and lifelong benefits of participating in sporting activities. Here we do not treat sports as simply "co-curricular activity" but rather as "core-curricular activity" for the holistic development of a powerful personality and leader. The Campus has excellent sports infrastructure facilities including floodlit grounds, a/c indoor hall and well mentored program for athletics, badminton, basketball, chess, cricket, football, golf, kabaddi, pool, table tennis, tennis and volleyball. BMU Teams are actively encouraged to participate in Inter University tournaments and sports festivals and are already making their mark with impressive results.
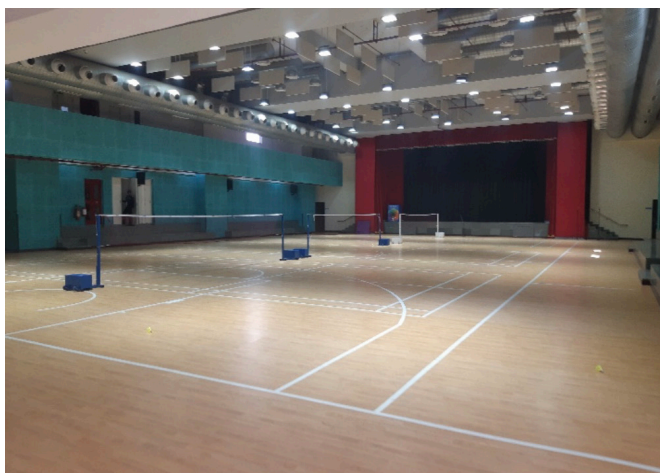
Multi-Purpose Hall

Gymnasium

Volleyball Court

Tennis Court

CAMPUS EXPERIENCE

CAMPUS GREEN COVER-UP

- Green Area-84% of total campus comprises of ground cover, trees, shrubs etc.

- No. of Trees-11752 comprising of various species.

- Taps & Showers Aerators-Taps and showers in whole campus are equipped with aerators creating a non-splashing stream and often delivering a mixture of water and air, reducing water wastage. We use portable sprinklers for water conservation.

University Green Area

RESEARCH, INNOVATIONS AND EXTENSION

The university faculty and staff are engaged in research, consultancy, innovation and executive education programmes. The details of the externally funded research projects are given below:

ON-GOING / COMPLETED EXTERNALLY FUNDED RESEARCH PROJECTS

S. No.	Title & scope of the project proposed	PI	Start Year	Total amount	Agency	Status (Ongoing/ Completed)
1	Spectroscopic investigations on functionalized fullerene derivatives for prediction of efficient acceptors in Solar Cells"	Dr. Tabish Rasheed	2016-17	10.775 lakhs	DST Young Scientist Project	Ongoing
2	"Investigations of structure and properties of H bonded unsymmetrical n-type Organic semiconductors: towards efficient organic field effect transistors."	Dr Amarnath Bheemaraju	2015	20.60 lakhs	DST Young Scientist Project	Completed
3	"Development of Thermal Diffusion Barrier coatings for cam chain Pins"	CAMD	2017	75 Lakhs	Rockman Industries, Ludhiana	Ongoing

4	Improving the Effectiveness of Jan Aushdhi Stores	Prof. B.S. Satyanarayana, Vishal Talwar, Dr. Ritu Chikara, Dr.Ruchi Garg	2018	25 Lakhs	NITI AAYOG	Completed
5	Design and Installation of Solar Panels	Prof B. S. Satyanarayana	2018	5 lakhs	Indian Electronics and Semiconductor Association & DIETY, Govt of India	Completed

RESEARCH PROJECT PROPOSAL SUBMITTED

The details of the research projects are as under:

Start-up SERB research projects submitted by BMU faculty members in Academic Year 2018-19.

S.No	Title & Scope of the project Proposed	PI	Co-PI	Agency
1.	"Rational Engineering of Lipase Stability for Efficient Biodiesel Production"	Dr. Bipin Singh	-	SERB-SRG
2.	"Real Time Implementation for Removal of Impulse Noise from Digital Images: On Camera Application"	Dr. Amarjit Roy	_	SERB-SRG
3.	"Experimental and computational (PANS, LES and DNS) investigation of using very slender shear-free surfaces of different sizes and materials for the purpose of achieving drag reduction in pipe/channel flows"	Dr. Ajay Kumar Sood	-	SERB-SRG
4.	"Nanoscale control and probing of metal-oxides and their interfaces for flexible and wearable sensors"	Dr. Abhimanyu Singh Rana	-	SERB-SRG
5.	"Automation of Stress Recognition and Monitoring in Campus Students based on Electro-dermal Activity"	Dr. Jayakrushna Sahoo	_	SERB-SRG
6.	Online wireless charging system for electric vehicles	Dr. Rajiv Dey	_	SERB-SRG
7.	Production of biofuel using anaerobic digester at low temperature: turning different organic waste materials into renewable energy	Dr. Meenakshi Agarwal	_	SERB-SRG
8.	Investigations of Ion Motion in Polymer Electrolytes for Battery Applications	Dr. Arijit Maitra	_	SERB-SRG

9.	"Light driven hydrogen production from the water by a heterogeneous photocatalytic system"	Dr. Sanmitra Barman	Dr. Amiya Dash	Haryana-DST
10.	"Remote Health Monitoring of a Manufacturing Machine using IoT for Industry 4.0"	Dr. Surya Prakash	Dr. Amiya Dash	Haryana-DST
11.	"Heterostructures and Interfaces of low-dimensional functional oxides for transparent and flexible electronics"	Dr. Abhimanyu Singh Rana	-	Haryana-DST
12.	"Graphene synthesized from solid carbon films using cathodic arc technique and its application"	Dr. O. S. Panwar	-	DST Nano-mission

SEED GRANTS BY THE UNIVERSITY

The University has a provision to sanction seed grants to encourage research activities by the faculty. The details of the seed money sanctioned/allocated to faculty members are given in the table as under.

S. No.	Principal Investigator	Co-PI (s)	Project name	Annual Sanctions
1.	Dr. N. Ch. Kaushik	Dr. Bipin Singh & Dr. Yarramaneni Sridharbabu	Assessment of mechanical and structural properties of high-performance polymer blends for automotive, structural and transmission applications	Rs. 2.5 lacs
2.	Ms. Jyoti Pruthi	Dr. Sudip Sanyal & Dr. Jayakrushna Sahoo	Stress Detection and Monitoring based on Electrodermal Activity	Rs. 7 lacs
3.	Dr. Abhimanyu Singh Rana	Dr. Amiya Dash	Low Dimensional Functional Materials for Energy Storage Applications	Rs. 5 lacs
4.	Dr. Arijit Maitra	Dr. A. K. Prasada Rao	Molecular Dynamics Simulation of Heterogeneous Crystal Nucleation	Rs. 1 lac
5.	Dr. Ratna Sanyal	Mr. Atul Mishra	ISOE - An Intelligent System for Online Evaluation	Rs. 2 lacs
6.	Dr. Surya Prakash & Dr. Anubhav Agrawal		Health Assessment of Surface Grinding Machine for Industry 4.0 Applications	Rs. 1.5 lacs
7.	Dr. Rik Paul	Dr. Vishal Talwar	Retail Rivalry: Developing a Hybrid Game of Retail Store Site Selection	Rs. 2 lacs

CONSULTANCY PROJECTS SUBMITTED/ONGOING

BMU faculty members have received many consultancy projects from educational institutions from abroad as well as from the industries. These projects are executed in collaboration with faculty members in various domains with the industry scientists. The details of these projects are given below.

S.No.	Title & Scope of the project Proposed	PI/Co-PI	Start Year	Agency	Funding Amount
1	Enhancing Customer Value Perception of Public hospitals by eliciting Multi-Sensory Experiences: A Study of Bangladesh and India	Dr. Riasat (NSU faculty)/ Dr. Ritu Chhikara, Dr. Ruchi Garg, Dr. Vishal Talwar	2019	NSU	5 lakhs Bangladesh taka
2	Enhancing the effectiveness of Pradhan Mantri Jan Aushadhi Yojana of Government of India	Dr. Ritu Chhikara, Dr. Ruchi Garg	2018	NITI Aayog	Rs. 25,00,000/-

IPR CELL Activities

The focus of the sessions organized by IPR Cell is to promote innovation at the university by getting students and faculty aligned with current technology standards so that they can do focused research and get benefit out of their research work. Also, faculty and students are trained in the whole patenting process. Helping them in ideation and guiding them to do modifications and getting their IP protected is a usual process at IPR Cell. Regular query sessions are conducted, where in faculty and students are able to resolve their queries on one to one basis.

Till now, BMU has sensitized approximately 700 students and around 80 faculty members. As a result of awareness sessions, BMU received multiple projects/manuscripts for patent filing from its students and faculty members. IPR cell has received around 180 projects/manuscripts for patent filing, amongst which 32 patents and 2 designs have been filed and further 9 are in the later stages of filing. The details are given below.

PATENTS/ DESIGN REGISTRATIONS FILED

S.No	Title of Invention	Inventor (S)	Programme	Date of Filing Of Complete Application
1	System and Method for Authorization of Sensor Nodes in Wireless Sensor Networks	Sunil Gupta	Computer Science and Engineering	1/16/2019
2	Method for Enhancing Data Availability in Vanet	Brij Bihari Dubey	Computer Science and Engineering	5/23/2019
3	Liquid Generating System and Its Method Thereof	Amarnath Bheemaraju	Chemistry	5/23/2019

4	Intelligent Healthcare Security Method	Sunil Gupta, Goldie Gabrani	Computer Science and Engineering	5/23/2019
5	System and Method for Predicting Usage of Drugs	Purnendu Shekhar Pandey	Computer Science and Engineering,	5/23/2019
6	Method for Securely Exchanging Data in Cloud Environment	Pradeep Kumar Arya	Computer Science and Engineering	5/23/2019
7	Automated System and Method for Controlling Electrical Appliances	Purnendu Shekhar Pandey	Computer Science and Engineering	5/23/2019
8	System for Reducing Data Duplication	Tamanna Sehgal, Pagidi Aruneswara Reddy, Annam Setu Durgesh Vinay	Computer Science and Engineering	5/23/2019
9	Surface Inspection System and A Method Thereof	Abhimanyu Singh Rana, Purnendu Pandey, Muskan, Teena Khandelwal, Manisha Khandelwal,	Computer Science and Engineering	5/23/2019
10	Data Retrieval System and Its Method Thereof	Sudip Sanyal, Wudaru Vishal Reddy, Nikhil Koditala, Kondragunta Venumadhav	Computer Science and Engineering	5/23/2019
11	Handwriting Recognition System and Its Method Thereof	Atul Mishra, Yash Khandelwal,	Computer Science and Engineering	5/23/2019

WORKSHOPS AND IPR RELATED SESSIONS

Workshops on IPR awareness for BMU students and faculty members were conducted on several occasions. The details of the sessions are summarized here.

TITLE	DATE	NUMBER OF PARTICIPANTS
Workshop on IPR	01-02-19	348
Workshop on IPR	08-03-19	146
Workshop on IPR	28-03-19	322
Research and IPR at BMU	30-07-19	79

LIBRARY ACTIVITIES

S. No	Date	Activities
1.	12 August, 2018	Librarian's Day Celebration
2.	23 November, 2018	Web of Science (Indexing &Abstracting Database)-Product Presentation
3.	07 December, 2018	User's Awareness Training of Bloomberg (Financial Database)
4.	14 December,2018	SCOPUS (Indexing &Abstracting Database)-Product Presentation
3.	15 January, 2019	Faculty &Staff Induction (New Joinees)
4.	29 January, 2019	Book Exhibition
5.	05 March ,2019	IEEE and EBSCO-E-Databases User's Awareness Training
6.	12 March ,2019	Turnitin (Anti Plagiarism) User's Awareness Training
7.	18 March ,2019	2nd Annual Book Exhibition

RESEARCH PAPERS PUBLISHED IN INTERNATIONAL/NATIONAL JOURNALS

1. D. Sharma, Nilaish. An Empirical Research on Multi-Disciplinary Learning Capability through Mnemonics. International Journal of Research in Humanities, Arts and Literature. 6(6); (2018); 243-258.

2. A. Roy, R. H. Laskar. Fuzzy SVM based fuzzy adaptive filter for denoising impulse noise from color images. Multimedia Tools and Applications. 78(2); (2019); 1785-1804.

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13. A. K. P. Rao, S.L. Pramod, Ravikiran, B.S. Murty, S.R. Bakshi. Microstructure and mechanical properties of as-cast and T6 treated Sc modified A356-5TiB2in-situ composite. Materials Science and Engineering A. 739(2); (2019); 383-394.

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16. G. Soni, V. Jain, F.T.S. Chan, B. Niu, S. Prakash. Swarm intelligence approaches in supply chain management: potentials, challenges and future research directions. Supply Chain Management: An International Journal. 24(1); (2019); 107-123.

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18. Gautam, Aditya, S. Prakash, U. Soni. Supply chain risk management and quality: a case study and analysis of Indian automotive industry. International Journal of Intelligent Enterprise. 5(2); (2018); 194-212.

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21. S. Sanyal, S. Gupta, INNAMP: An incremental neural network architecture with monitor perceptron. AI Communication. 31(4); (2018); 339-353.

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23. G. Gabrani, A. Solomon, U. Dviwedi. Teaching Pedagogies Used in Higher Education for Better Learning Outcomes. Journal of Engineering Education Transformations. 3(2); (2018).

24. O. S. Panwar, R. K. Tripathi, I. Rawal, B. P. Singh, B. C. Yadav. Study on nanocrystalline silicon thin films grown by the filtered cathodic vacuum arc technique using boron doped solid silicon for fast photo detection application. J. Taiwan Institute of Chemical Engineers. 86(5); (2018); 185-191.

25. O. S. Panwar, A. K. Kesarwani, S. R. Dhakate, B. S. Satyanarayana. Graphene synthesized by filtered cathodic vacuum arc technique and its applications. Vacuum. 153(7); (2018); 262-266.

26. A. Bisht, O. S. Panwar, S. Chockalingam. A comparison of Field Emission Properties of carbon Nanostrctures Deposited by the Microwave Plasma Enhanced Chemical Vapor Deposition, Enhanced Chemical Vapor Technique. Frontiers in Nanotechnology. 1(7); (2018).

27. S. Kashyap. Antioxidant efficacy of chitosan/graphene functionalized superparamagnetic iron oxide nanoparticles. Journal of Materials Science: Materials in Medicine. 29(10); (2018); 154.

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29. G. Lakhotiya, N. G. Belsare, A. Rana and V. Gupta. Cu2S Nanocrystals based fullerene free ternary organic solar cells. Current Applied Physics. 19(4); (2019); 394-399.

30. Q. Zhang, A. S. Rana, X. Liu, N. Valanoor. Electrode dependence of local electrical properties of Chemical Solution Deposition-derived BiFeO3 thin films. ACS Applied Electronic Materials. 1(1); (2019); 154-162.

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AWARD & RECOGNITION

FACULTY/STAFF ACHIEVEMENTS

S. No.	Name of recipient	Type of award	Detail of award	Year of the award
1	Dr. A K Prasada Rao	Excellent Reviewer	Springer Nature and Trans. IIM, INDIA	2018
2	Dr. A K Prasada Rao	Outstanding reviewer award	Acta Materialia and Scripta Materialia	2018
3	Dr. Rupa Murghai	Award for significant contribution	BMU (On Founder's Day)	2018
4	Dr. Vishal Talwar Dr. Jaskiran Arora Dr. Rik Paul	ReImagine Education Award Certificate	Business Education Award Category	2018
5	Dr. Payal Kumar	HR division Academy of Management service Award	The Human Resource Division	2018
6	Dr. Bipin Singh	Appointed as Steering Committee member of IndiaRxiv	A Preprints Repository Service for India Maintained by Open Access India (https://indiarxiv.org/)	2019
7	Dr. Purnendu Shekhar Pandey	Invited talk	Emerging Trends in IoT and Discrete Process Modelling, Simulation & Optimization; Rajkiya Engineering College, Azamgarh, UP	2019
8	Dr. Rik Paul	Best paper award	International Conference 'Society and Business in the New Millennium	2019
9	Dr. Vishal Talwar	251 Fabulous Global Education Leaders	World Education Congress	2019
10	Dr. Payal Kumar	Andre Delbecq & Lee Robbins MSR retreat scholarship	Academy of Management, USA	2019
11	Dr. Payal Kumar	Best reviewer award	Academy of Management, USA	2019
12	Dr. Rik Paul	Best paper award	International Conference 'Society and Business in the New Millennium	2019
13	Dr. Ashish Bharadwaj	Cyber Sentinel 2019 award	Infosec Foundation & Enterprise IT World at the Security Symposium	2019

14	Dr. Ashish Bharadwaj	Design Management (Infrastructure Management) award	UBS Forums at the 8th Data Centre Summit & Awards 2019	2019
15	Dr. Sumit Shandilya	Young leader of the year award	GISR foundation	2019
16	BMU President: Mr. Akshay Munjal	Entrepreneur of the Year Service Business – Education	During 9th Annual Entrepreneur India Awards 2019, organized in media partnership with Zee Business	2019
17	School of Management	Emerging Business School (North) Award	ASSOCHAM Award	2019
18	School of Management	BW Award – Category: Innovative in Teaching Pedagogy		
	Business World (BW)	2019		
19	School of Management	The Game of Stores - Cengage Pride/ Ferrell Innovations in Teaching Competition (Finalist).	The Society for Marketing Advances, USA	2019

STUDENTS ACHIEVEMENTS

S. No.	Students	Club/Band	Event	Location	Achievement	Date
1	Aditya Prakash; Saswat Sarangi; Yash Patil; B Durga Bhagavan; Sai Sandesh Burada	Enactus Club/ Team Amala	Hustle Up	Tryst 2019, Enactus IIT Delhi	Most Innovative Approach" with a cash prize of ₹5000	04-Mar-19
2	Nandit Mehra	Individual	F8 2019 Hackathon by Facebook	San Jose, California	Among top 8 finalists and among only 3 teams to pitch in front of CEO Mark Zuckerberg	30 Apr - 01 May 19

STUDENT AFFAIRS

A.   SPORTS ACTIVITIES

Sports Achievers who visited the Campus

S.No.	Date	Sportsman
1	29th July '18	1. Arjuna Awardee & Olympian boxer – Mr. Akhil Kumar 2. Arjuna Awardee, Khel Ratna & Olympian Shooter – Mr. Ronjan Sodhi
2	24th April '19	Leadership talk by Mr. Abhinav Bindra on his achievements and journey of becoming the only Olympic Gold medalist in an Individual event

BMU Sports Activities 2018 – 19		
S.No.	Date	Description of event
1	18th and 19th August 2018	Fresher's Challenge 2018, The fresher's i.e. 1st year students play against the 2nd year students in order to jell up and know the sporting facilities and staff/students involved
2	29th August '18	Celebration of National Sports Day.
3	Aug. '18, Sept. '18, Oct. '18, Nov. '18 and April '19	"Banyan League", 4 member universities i.e. Ashoka University, OP Jindal Global University, Shiv Nadar University and BMU play 7 sports in a league format over the year
4	Sept. "18 & Jan. '19	Inter Quad, all the university students are allotted with Quads. The students represent their Quads in 11 sports over the year
5	5th , 6th and 7th October 2018	"Hero's Challenge 2.0", annual sports festival of BMU. At the second edition of "Hero's Challenge" 14 Institutions participated with more than 700 students in 10 sports.
6	24th to 28th October 2018	Participation at "Spardha", annual sports festival IIT, BHU
7	22nd to 25th Nov. 2018	Participation at "Agneepath", Annual Sports Festival of Ashoka University
8	20th Dec. 2018 and 13th April '19	Sports Gala, faculty vs staff matches
9	8th to 10th Feb. '19	Participation at "Breeze", annual sports festival of Shiv Nadar University
10	15th to 17th Feb. '19	Participation at "Agneepath" annual sports festival of Ashoka University
11	1st to 4th March '19	Participation at "Sportech" annual Sports festival of IIT, Delhi
12	6th to 8th March '19	Participation at "Sportopia" annual sports festival of GD Goenka University
13	15th to 17th March '19	Participation at "Magnus" annual sports festival of OP Jindal Global University
14	29th to 31st March '19	Participation at "Spree" annual sports festival of BITS, Goa

Performance of BMU at Various Sports Festivals (External)

Festival	Sports Discipline	Position
"Spardha", annual sports festival of IIT, BHU (October 24-28, 2018)	Badminton	2nd Position
"Breeze", annual sports festival of Shiv Nadar University (February 8-10, 2019)	Badminton	2nd Position
"Breeze", annual sports festival of Shiv Nadar University (February 8-10, 2019)	Tennis	1st Position
"Sportech" annual Sports festival of IIT, Delhi (March 1-4, 2019)	Tennis	1st Position
"Sportech" annual Sports festival of IIT, Delhi (March 1-4, 2019)	Badminton	1st Position
"Magnus" annual sports festival of OP Jindal Global University (March 15-17, 2019)	Kabaddi	2nd Position
"Spree" annual sports festival of BITS, Goa	Kabaddi	1st Position

Performance of BMU at Various Sports Festivals (Internal)

Festival	Sports Discipline	Position
"Hero's Challenge 2.0", annual sports festival of BMU (October 5-7, 2018)	Badminton(Men's Singles), Badminton (Men's Doubles), Cricket, Kabaddi and TT(M)	1st Position
"Hero's Challenge 2.0", annual sports festival of BMU (October 5-7, 2018)	Badminton(Men's Singles), Badminton (Mixed Doubles), Chess and Pool	2nd Position
"Hero's Challenge 2.0", annual sports festival of BMU (October 5-7, 2018)	Chess, Kabaddi, Pool, Tennis (W) and Volleyball	3rd Position
Inter Quad (Over the whole year during the weekends)	Volleyball – Trojans Basketball – Trojans Table Tennis – Romans Football – Romans Chess – Gladiators Pool – Gladiators Kabaddi – Trojans Cricket – Gladiators Tennis – Trojans Badminton – Gladiators Athletics – Spartans Campus Run (M) – Spartans Campus Run (W) – Romans	1st Position

Inter Quad (Over the whole year during the weekends)	Volleyball – Gladiators Basketball – Romans Table Tennis – Spartans Football – Gladiators Chess – Romans Pool – Spartans Kabaddi – Gladiators Cricket – Romans Tennis – Spartans Badminton – Trojans Athletics – Gladiators Campus Run (M) – Romans Campus Run (W) – Spartans	2nd Position
Inter Quad (Over the whole year during the weekends)	Volleyball – Spartans Basketball – Romans Table Tennis – Spartans Football – Gladiators Chess – Romans Pool – Spartans Kabaddi – Gladiators Cricket – Romans Tennis – Spartans Badminton – Trojans Athletics – Gladiators Campus Run (M) – Romans	3rd Position

Special Sporting Events at BMU

S. No.	Date	Description
1	3rd June to 15th July '19	Delhi Dabang kabaddi Club trained for the Pro Kabaddi league season consecutively for the 3rd time at BMU. BMU is the training venue partner for Delhi Dabang team.
2	27th and 28th June '19	"Panga", a kabaddi tournament conducted by Delhi Dabang Kabaddi Club where in 64 kabaddi teams from the whole North India participated
3	29th June '19	Reliance Foundation scouting for the U – 17 Indian women's team for the World cup 2020 held under the aegis of All India Football Federation

Glimpses of Sports Activities

B. Co-curricular Activities

S.NO	DATE	EVENT	DESCRIPTION OF EVENT
1	5th Oct, 2018	Back to Code Challenge	ACM Club organized a coding competition to encourage students to take interest in coding related concepts.
2	23rd - 24th March, 2019	HackBMU 2.0	ACM Club organised a Hackathon focused on promoting innovation, entrepreneurship and networking was organised. Teams from all over the country participated. Nearly half the participants were women.
3	8th Sept, 2018	NX 10 Design Workshop	ACM Club organised a workshop to create awareness about use of NX software series and provide knowledge about the software interface and its utility.
4	21st Sept, 2018	ANSYS Simulation Learning Workshop	ACM Club organised this workshop in which ANSYS (student version) and other study materials which are useful for simulation and analysis perspective was provided. Some case studies were also discussed.

5	5th Oct, 2018	IC Engine Workshop	Automobile Club organised this workshop to provide students an in-depth view of research areas in IC Engine segment.
6	15th July, 2019	SAE Supra	Students of Automobile Club participated in the 8th edition of SUPRA SAEINDIA at the Buddh International Circuit in Greater Noida - India's biggest formula racing competition for students.
7	25th- 29th March, 2019	National Eco-Cart Championship	Students of Automobile Club participated in the highly reputed NEKC Event held at Rajiv Gandhi Prodyogiki Vishwavidyalaya.
8	22nd August, 2018	TEDx BMU Salon	Sierra Club hosted a BMU TEDx Salon with the theme "Into Oblivion" wherein speakers eminent in their own fields (Sunitha Goparaju, Siddharth Singh, R Balaji & Akshansh Singh) shared their thoughts & experiences with students.
9	8th-9th Feb, 2019	Model United Nations - BMU	Sierra Club hosted a Model United Nations (MUN) in which students learnt about diplomacy, international relations, and the UN through speaking, debating, and use of writing skills, in addition to critical thinking, teamwork, and leadership abilities.
10	24th Nov, 2018	Hult Prize BMU	Sierra Club organised selections for teams participating in Hult Prize(World's biggest engine for launch of for-good, for-profit start-ups).
11	24th-25th Oct, 2018	Money Muffins	Sierra Club organised Money Muffins, a crowd funding venture for student teams selected for Hult Prize. This took the form of a food fest.
12	17th Oct, 2018	Hatke Panipuri	Culinary Club organized a food eating competition in a very fun way.
13	8th Feb, 2019	MasterChef	Culinary Club organised an inter-college event as a part of our annual fest, The 67th Milestone. Students from all over the country participated enthusiastically.
14	10th Feb, 2019	Grappling Tournament	Fight Club organized a Grappling Tournament as a part of the annual fest, The 67th Milestone.
15	6th-8th August, 2018	Fresher's Debate	LiQuiD Club organised a debate competition for the fresh undergraduates of 2018.
16	6th Sept, 2018	Chai Pe Charcha	LiQuiD Club organised Chai Pe Charcha on "Should Gambling be Legalised in India?"

17	8th Feb, 2019	Inquisitive	LiQuiD Club organised a quiz competition as part of the annual fest, The 67th Milestone.
18	8th-9th Sept, 2018	Arduino 101 Workshop	Robotics Club, in association with Robotech labs, conducted an Arduino 101 workshop & competition covering the basics.
19	16th Feb, 2019	Coding Ninja Workshop	Sci-Mat Club organised a coding workshop teaching effective skills in fields of Algorithms, Data Structures, Big Data etc.
20	22nd Oct, 2018	Talk on Stage Fright	Speakeasy Club organized a talk on how to overcome stage fright and be more confident.
21	8th Feb, 2019	Slam Poetry	Speakeasy Club organized their flagship event, "Slam Poetry" as part of the annual fest, The 67th Milestone. Participants from different colleges competed. The theme was open, and participants recited poetry of different kinds.
22	15th Aug, 2018	Rangon Ka Karwaan	Strokes Club organized Rangon Ka Karwaan as part of the Independence Day Celebrations. The theme was" Independence" and students participated in painting, rangoli making etc.
23	8th-9th Feb, 2019	Fine Arts Marathon	Strokes Club organised their flagship event, " Fine Arts Marathon". Participants were given a limited amount of time to do the art work given by the club on a specific topic.
24	8th Feb, 2019	HR Panel Discussion	TSEC Club organized a panel discussion as part of the annual fest, The 67th Milestone. HR Professionals from reputable organizations were invited for the panel discussion.
25	8th March, 2019	Women's Day Celebrations	Udaan Club celebrated Women's Day by organizing different sports and cultural activities on a fun-filled day.
26	9th March, 2019	Women's Talent Night with Hamari Aasha	Udaan Club collaborated with the Raman Kant Munjal Foundation which teaches and empowers women across all communities to work together and help them become economically independent. A talent night was organised to showcase the hidden talent of the foundation students and also showcased different handicraft items made by the students of the Hamari Aasha initiative.

27	1st sept, 2018	Tree Plantation	Environmental Club undertook a plantation drive and planted 15 Ashoka trees on the convocation day in the campus.
28	20th Nov, 2018	Visit to Village (Bilaspur Kalan)	Environmental Club members visited Bilaspur village to survey the people and showcase Aasha Smart Bins.
29	26th Nov, 2018	Power Down Challenge	18+ teams pitched their ideas in front of a panel of 6 judges to conserve the energy of BMU or use it in an efficient way.
30	23rd Oct, 2018	Extravaganza	Performing Arts Club (PFA) organised their flagship event where students showcased their talent in the fields of music, dance and drama. This event had the highest amount of turnout in terms of both number of audience and participants.
31	24th Jan, 2019	Studio Night	Photography and Cinematography Club (PAC) organised their flagship event to give a studio styled photography experience wherein students got their professional portraits and group pictures taken at minimal cost.

GALLERY OF CO-CURRICULUAR ACTIVITIES BY VARIOUS CLUBS

Automobile Club

Culinary Club

NSS

SAVERA Club

Environment Club

Strokes Club

STUDENT AFFAIRS

C. Placement & Internship/Practice School Report of BMU: 2018-19

School of Management: MBA

Academic Background

- B.Pharm — 2%
- BCA — 2%
- BBA — 17%
- BA & BA (hons) — 7%
- B.Com & B.Com (hons) — 43%
- B.Sc & B.Sc (hons) — 8%
- BE & B.Tech — 21%

Work Experience

- Experienced — 25%
- Fresher — 75%

Placement Update
96% Students Placed

- Total Students — 65
- Interested Students for Placement — 61
- Placed Students — 58

Salary Details (in LPA)

- Highest — 15.7
- Average — 7.93
- Median — 7.8
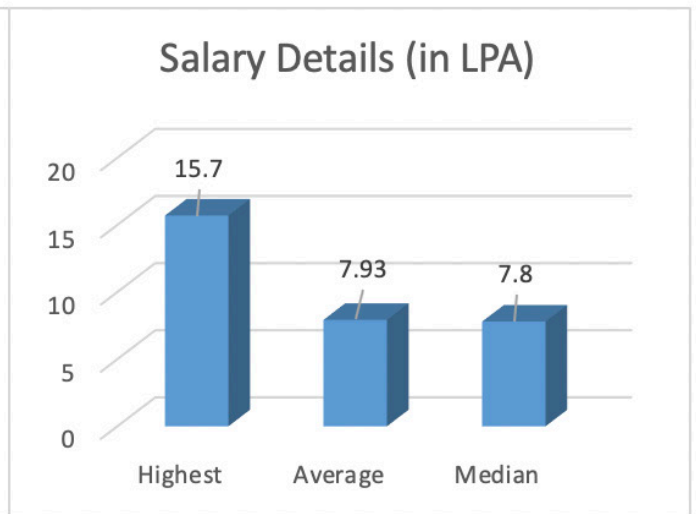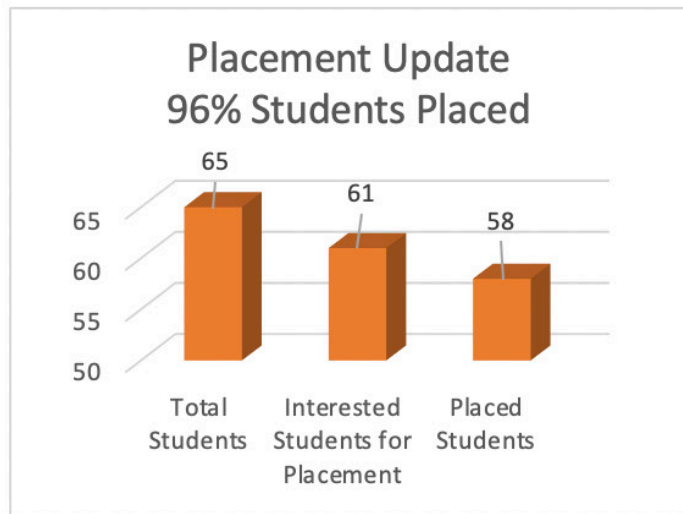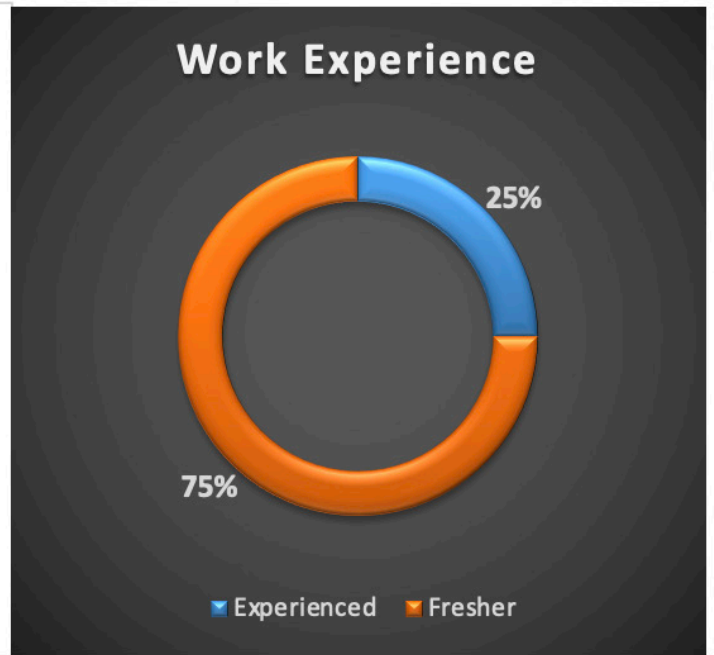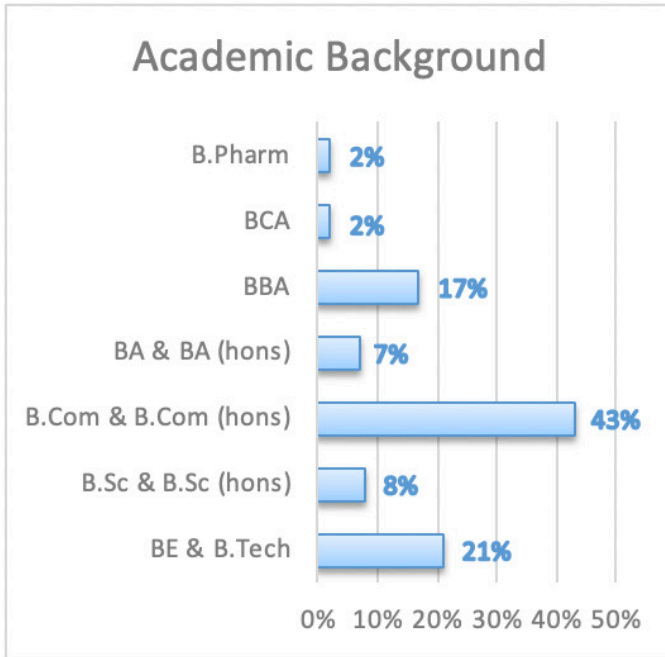
Few of our prominent recruiting partners – MBA

AXIS Bank	Hero MotoCorp
Capital Float	KPMG
CARS24	Mount Meru
Coffee Day Beverages	Nestle
Federal Bank	QuaQua Experiences
Felix Advisory	Skootr Global
Grant Thornton	TVS Credit Services
Hero FinCorp	TVS Motors

Internship Companies – MBA 2018-20:

3M	Felix Advisory	KPMG
Aditya Birla Sun Life	Finalytics	Mott Mcdonald
AIM	Grant Thornton	Mount Meru
Airtel Payment Bank	Hero Moto Corp	Qua Qua
Algoritmo	HPCL	Reliance Retail
Bhagyanagar Diesel	ITC -Hotels	Tajpuria Industries Pvt Ltd
Delloite	Kotak Mahindra Bank	Tata Communication
Far n Par India Pvt Ltd	Agastya Agro Limited	TVS Motors

School of Management: BBA/BCom.
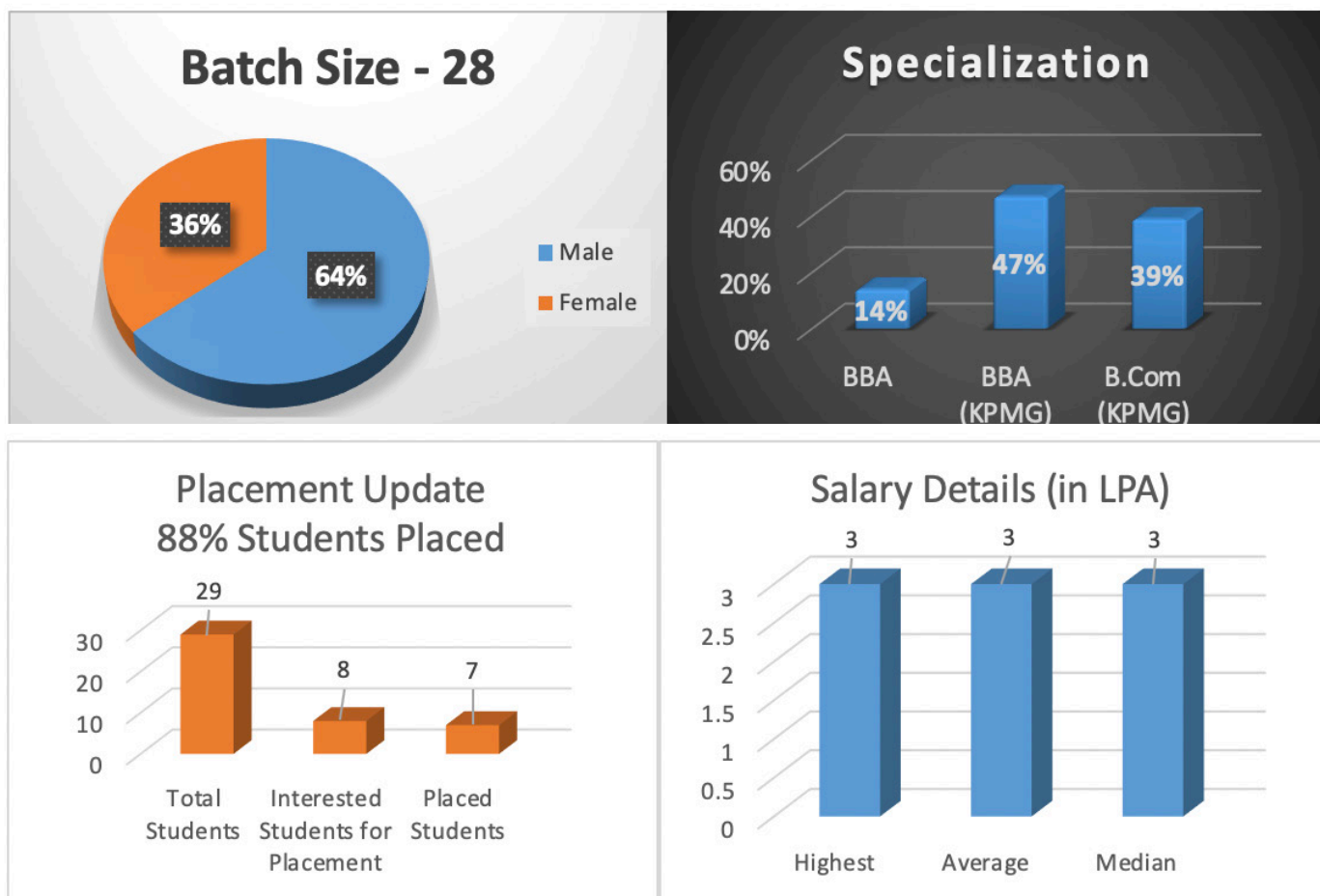
Few of our prominent recruiting partners – BBA/B.Com.

Jaro Education	Skootr Global
QuaQua Experiences	Photon Interactive
Bridge Group Solutions	Protiviti
Mowize	Thomson Digital
Uno-Minda Group	Wipro
Phronesis Partner	Zycus
Decathlon Sports India	

School of Engineering & Technology: B.Tech.

Batch Size - 339

- Male: 86%
- Female: 14%

Specialization

CSC	CSE	ECE	ME	Civil
18%	40%	14%	26%	2%

Placement Update
83% Students Placed

Total Students	Interested Students for Placement	Placed Students
339	198	163

Salary Details (in LPA)

Highest	Average	Median
15.7	4.6	4
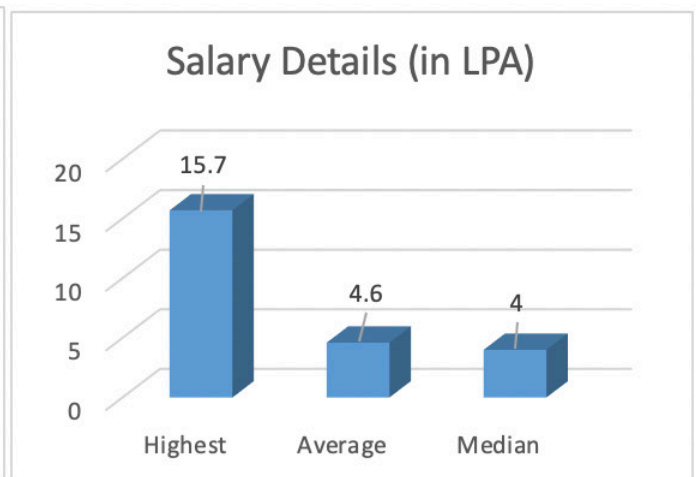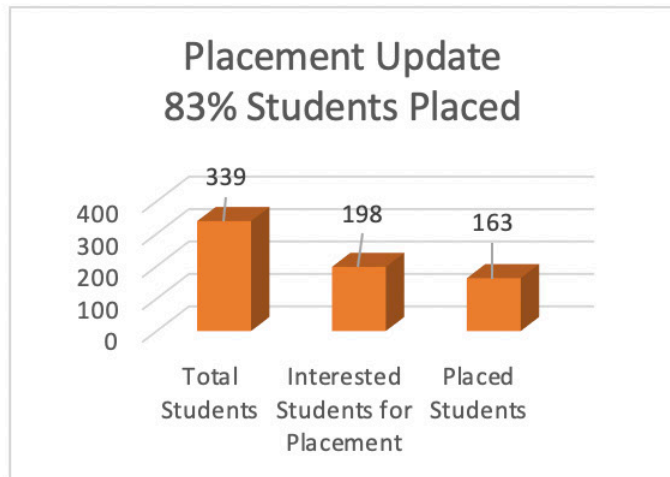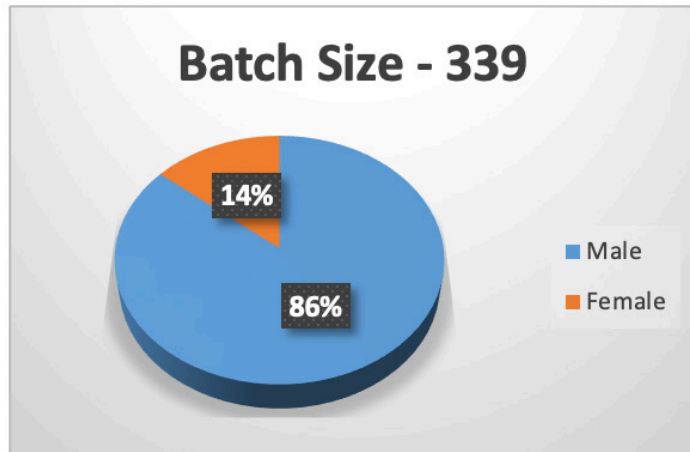
Practice School – B.Tech.: 100% Students Placed in Practice School with 170+ Participating Companies

Stipend Details (INR)

Highest	33000/-
Average	12700/-

Few of our prominent recruiting partners – B.Tech.

Doodleblue	Mount Meru
Merkle Sokrati	GE Healthcare
Byju's	Indxx
TCS	Virtusa
Hero MotoCorp	Zycus
Tek Systems	Lutron
Agnikul	Ernst & Young GDS
Syscloud	ServiceNow
Truechip	Rane
Wipro	Protiviti

Addverb	Kony Labs
NIIT Ltd.	DCM Shriram Fenesta
Synopsys	BharatPe
Mahindra & Mahindra	Rockman Industries
Amazon India	Altiostar
Padmini VNA Mechatronics	IndiaMart

Practice School Companies:

Doodleblue	Mount Meru
Merkle Sokrati	GE Healthcare
Byju's	Indxx
TCS	Virtusa
Hero MotoCorp	Zycus
Tek Systems	Lutron
Agnikul	Ernst & Young GDS
Syscloud	ServiceNow
Truechip	Rane
Wipro	Protiviti
Addverb	Kony Labs
NIIT Ltd.	DCM Shriram Fenesta
Synopsys	BharatPe
Mahindra & Mahindra	Rockman Industries
Amazon India	Altiostar
Padmini VNA Mechatronics	IndiaMart

At BMU, we have set a strong culture to implant the seed of pursuing higher education amongst our student community. As a result, many of our students have to proceeded for further higher studies in various national & international institutions/universities after their graduation from us. Following are some students who have earned an opportunity to pursue their higher studies from some world renowned institutions/universities:

S.No.	Student Name	Name of the University/ Institution	Program admitted
1	Annam Setu Durgesh Vinay	Arizona State University	MS
2	Chirra reddy Sai Sankeerth Reddy	Arizona State University	Master of Computer Science
3	Simran Singh	Christ University, Bangalore	MBA
4	Boyapati Yasaswi	University of Illinois, Urbana Champaign	Information Management
5	N S Bhargava	University of Ohio	MS
6	Sumang Garg	IISc, Bangalore	-

7	T Prithvi	Macquire University, Sydney	MBA
8	Varun Agrawal	S.P. Jain College	MBA
9	T Gouthami Samhitha	University of North Texas	Information Science
10	V Himasekhar	Arizona State University	MS in Computer Engineering (Electrical Engineering)
11	Sambhav Jain	Macquarie University, Sydney	-
12	Mehak Sablok	Macquarie University, Sydney	Master of Engineering (Telecommunication Engineering)
13	Saumya Tiwari	S.P. Jain Institute of Management & Research, Mumbai	MBA
14	Karri Vivek Reddy	North Carolina State University, USA	Master of Computer Science
15	Konkimalla Ravi Teja	University of Pennseliveya	Robotics
16	Shantesh Rai	Technische Universitat, Dresdan	-
17	Gulshan Sharma	IIT	M.Sc. (Physics)

Events Organized by CGDC:

Alumni Meet (27th April 2019):

BMU believes on having a strong connect with the Alumni, as they are the ones who are guiding forces for the students. With a view to reunite them we rolled out the red carpet for our graduated students and organised our 1st Alumni meet. This small step witnessed several success stories and dissemination of learning to the aspiring student.

Career Counselling Day (27th July 2019):

The Career Guidance & Development Centre (CGDC) at BML Munjal University dedicatedly envisages a promising career for our students. Apart from traditional support of training & placement, the department also distillates holistic career guidance. The student engagement is pivotal for the functioning of CGDC, with guidance on Higher & International Education, executing student trainings, and organizing all smalls conclaves/seminars/guest lectures. Alumni management by CGDC also adds value to the vision of the university. Career Guidance is also extended by roping in professionals from industry. CGDC has partnered with 'I Dream Career' for career counselling of students where eminent counsellors shall be extending one to one counselling and guidance for the better perspective of our students.

International University Day (7th August 2019):

The CGDC is intended to extend motivation and direction to BMU students for international academic options. Hence, for the students, International University Day is being organized annually. This year August 07th has been observed at International University day at BMU Campus. Fourteen (14) International Universities from countries like Australia, France, Netherlands, UK, USA participated in the one-day event. Institutions like British Council, USIEF also visited to guide BMU students.

List of Universities/Institutions:

S.No.	Participating University	S. No.	Participating University	S.No.	Participating University
1	University of Bristol	6	Arizona State University	11	University of Leeds
2	Wageningen University & Research	7	Wayne State University	12	Deakin University
3	DAAD	8	Tiffin University	13	University of Liverpool
4	University of South Florida	9	Illinois Institute of Technology	14	The University of Sheffield
5	University of Groningen	10	UGA (Univ. Grenoble Alpes)	15	Aston University, Birmingham

Other Events organized at BMU Campus

S.No.	Event	Date
1	VLSI Workshop from Truechip	02nd Aug. 2018
2	Alibaba Hackathon	29th Sep. 2018
3	Mahindra & Mahindra Auto Qoutient Event	16th Jan. 2019
4	Leadership Talk by Mr. Emmanuel De Roquefeuil, VP & Country Director, Thales India	22nd Jan. 2019
5	Guest Lecture by Mr. Mir Raja, HR, GO-Jek	01st Mar. 2019
6	Guest Lecture by Mr. Anil Sagar, CEO, Envirocom	29th Mar. 2019
7	Guest Lecture by Mr. Hitesh Kaushik, VP, COWI India Pvt. Ltd.	03rd Apr. 2019
8	Guest Lecture by Mr. Anjan Bhattacharya, Associate Partner, Advisory, EY Services Pvt. Ltd.	01st May 2019
9	Guest Lecture by Mr. Saurabh Jain, Vice President - CSR at Paytm	30th July, 2019
10	Workshop on VLSI by Truechip	1st Aug. 2019
11	Presentation on Chevening Scholarships and Fellowships 2020-21 (UK Government's flagship global scholarship scheme)	21st Aug. 2019
12	Paradigm – Startup Boot Camp for BMU Students organized by Alumni Association & CGDC	24th & 25th Aug. 2019
13	Blog Talk by Mr. Karan Chadha from ekalam.com	26th Aug. 2019
14	Guest Lecture by Prof. Sankalp Chaturvedi, Imperial College, London	31st Aug. 2019
15	Guest Lecture by Dr. R. Sonde, Executive Vice President Research, Technology & Innovation, Thermax	11th Sep. 2019
16	Career Counselling Sessions by Mrs. Ratna Pant from iDream Career	25th Sep. 2019
17	Workshop on Minecraft by Microsoft	25th Sep. 2019
18	Leadership Talk by Mr. Aditya Ghosh, CEO India and South Asia, OYO Hotels & Homes	25th Sep. 2019
19	BMU signed an MoU with Adventum Advanced Solution, Bangalore	26th Sep. 2019

SCHOLARSHIPS

HARYANA DOMICILE SCHOLARSHIPS

23 students were given scholarships under Haryana domicile category during the academic year 2018-2019. The details are as follows:

S.No.	Scholarship type under Haryana domicile	No. of Students	Disbursed amount (Rs.)
1	100% Scholarship criteria	6	Rs.1885000
2	50% Scholarship criteria	9	Rs.1147500
3	25% Scholarship criteria	8	Rs.475000
Total scholarship amount			Rs.3507500

Apart from this, we had also disbursed the amount of Rs. 88,231,875 between 610 students as BMU scholarships during the academic year 2018-2019.

FOUNDER`S DAY

In honor of our Founder- Dr Brijmohan Lall Munjal Ji, we celebrate Founder`s Day. On this occasion, the E2/ Hamari Pari Scholarships to students and Achiever's Award to Faculty, Staff and Students were given by the Hero MotoCorp.

HAMARI PARI SCHOLARSHIP

1. The Hamari pari Scholarships is to encourage meritorious girl students from economically disadvantaged families to study professional areas such as engineering, commerce and management.

2. Provide scholarships to underprivileged but academically bright girls to study at BML Munjal University under this scheme as we would specifically like to attract more and more girl students to study engineering and management, to help them in their holistic development and to empower the women of tomorrow through quality education.

S. No.	Year	Student Name	Programme	Branch
1	2018	Saijal Goyal	B.Tech	CSE
2	2018	Nadella Harshini	B.Tech	ME
3	2018	Polisetti Prasunna Lakshmi	B.Tech	CSC
4	2017	Swati Deshwal	B.Tech	CSE
5	2016	Payal Chawla	B.Tech	CSE
6	2016	Kavya Saxena	B.Tech	CSE
7	2017	Deepika Bisht	B.Tech	CSE
8	2015	Pragya	B.Tech	CSE

E-2 SCHOLARSHIPS

The scholarships are given to academically bright students (boys and girls) to empower them and help develop them as leaders of tomorrow. The Scholarships are awarded to a girl student and a boy student in all degrees/disciplines every year

S.No.	Student Name As per Pass Book	Father's Name	Branch
1	Miss Gangadasu Vinoothana	Gangadasu Nagarjuna Reddy	CSE
2	Rahul Chauhan	Omprakash Singh	CSE
3	Nikita Arora	Balkishan Arora	CSC
4	Piyush	G Prem Anand	CSC
5	Miss. Chatakonda Kavyasree	Ch Bheemaiah	ECE
6	Swarnim Neema	Sanjay Kumar Neema	ECE
7	P Narasimha Chandra	P Subramanyam	ME
8	Sudeep Kaur	Paramjeet Singh	MBA (Regular)
9	Ayush Lodha	Sandeep Lodha	MBA (Regular)

ACHIEVER'S AWARDS TO STUDENTS FOR BEST PERFORMANCE IN DIFFERENT PROGRAMMES

Branch	Student Name
B.Tech ME (3rd Year)	Vemuri Prakash and Abhishek Agarwal
B.Tech CSC (2nd Year)	Nandit Mehra
B.Tech CSE (4th Year)	Nimish Latiyan
BBA (3rd Year)	Harjeev Singh
B.Tech ME (4th Year)	Shivam Desh Ratna

ACHIEVER'S AWARDS TO FACULTY FOR BEST PERFORMANCE IN DIFFERENT PROGRAMMES

S.No	Awards Category	Type of Award	Name
1.	Achievers Award for Faculty (SOM)	BMU Excellence in Teaching Award	Dr. Amit Bagga
2.		BMU Excellence in Research Award	
			Dr. Payal Kumar
3.		BMU All-rounder Award	Dr. Subaran Roy
4.	Achievers Award for Faculty (SOET)	BMU Excellence in Teaching Award	Tamanna Sehgal
5.		BMU Excellence in Research Award	Sanjay Kashyap and Sumit Roy (ME)
6.		BMU All-rounder Award	Dr. Ratna Sanyal

ACHIEVER'S AWARDS TO STAFF FOR BEST PERFORMANCE IN DIFFERENT PROGRAMMES

S.No.	Name
1	Mrs Rupa Murghai (Senior Counsellor)
2	Ajay Kumar Yadav
3	Ms. Charu Joneja

LONG-TERM SERVICE AWARD

S.No.	Name	Work Anniversary
1.	Dr. Vinayak Kalluri	5 years
2.	Mr. Dhanesh Kumar Gaur	5 years
3.	Mr. Suraj Bhan	5 years

EXTERNAL RELATIONS

During the year 2018-19, the University has signed Memorandum of Understanding with following International & National Universities/Organizations to improve the quality of education

1. Imperial College of Science, Technology and Medicine, London, UK

2. University of Warwick (WMG), Warwick, UK

3. Canada - India Centre for Excellence at Carleton University

4. School of Business and Economics, Loughborough University, United Kingdom

5. University of Michigan-Flint, USA

6. University of AGDER, Norway

7. University of North Georgia, USA

8. Department of Management and Innovation system, University of Salerno, Italy

9. Saint Mary's College of California, USA

10. Kent State University, USA

MOUs signed with National partners:

1. L&L Partners, New Delhi

2. Microsoft Corporation India Private Limited, India

3. Sabudh Foundation, Punjab, India

4. Ativitti AI Technologies Pvt Ltd, Greater Noida, India

5. INFLIBNET Centre, an IUC of University Grants Commission

6. Enoble IP, Noida, India

MAJOR EVENT: 4th ANNUAL CONVOCATION

The 4th Annual Convocation of BML Munjal University, Gurugram, was held on August 31, 2019 and was presided over by the Chancellor, BML Munjal University, Mr. Sunil Kant Munjal with Dr. Jyotsna Suri, Chairperson and Managing Director, Bharat Hotels Limited as the Chief Guest and Mr. George Goh Ching Wah, Chairman, The Border Mission, Singapore as the "Guest of Honor". A total of 439 students were awarded their respective degrees at the convocation. The Doctorate Honoris Causa was also conferred to Mr. George Goh Ching Wah on this occasion.

ACADEMIC PROGRESSION & DISTINCTIONS [2018-19]

S.No.	Academic Session	Program	Total Students Appeared	Total Students Qualified
1	2017-19	MBA	65	65
2	2016-19	BBA	17	17
3	2016-19	B.Com (Hons.)	11	11
4	2015-19	B.Tech-CSC	60	56
		B.Tech-CSE	136	131
		B.Tech-CVL	9	9
		B.Tech-ECE	47	46
		B.Tech-ME	86	82
Total (A)			431	417
S.No	Academic Session	Program	Total Students Appeared	Total Students Qualified
1	2016-18	MBA	16	16
2	2015-18	BBA	1	1
3	2015-18	B.Com (Hons.)	4	2
4	2014-18	B.Tech-CSE	3	2
		B.Tech-ECE	1	0
		B.Tech-ME	1	1
Total (B)			26	22
Grand Total (A+B)			457	439

Award Winners: Founder`s Medals

The Founder`s Medal is awarded based on academic integrity, proficiency in co-curricular & cultural activities, creative & critical thinking, innovativeness, learning abilities, cultural sensitivity, compassion, leadership qualities and all-round performance.

PROGRAMME	NAME OF THE STUDENT
MBA	Sudeep Kaur
B.TECH	Guneet Kaur
B.COM(HONS)	Shrey Tandon

Award Winners: Academic Excellence Medals

The "**Academic Excellence Medal**" is presented to the student with the highest academic score.

PROGRAMME	NAME OF THE STUDENT
MBA	KAJAL GOEL
BBA	VEDANT MEHRA
B.COM(HONS)	SHREY TANDON
B.TECH CSE	VISHAKHA CHOURASIA
B.TECH CSC	PRAKHYA SRIDHAMA MARUTHI SASTRY
B.TECH ME	PRINCE KUMAR
B.TECH ECE	M JAHNAVI
B.TECH CIVIL	BEZAWADA SAI ADITYA PAVAN KUMAR

Conferment the **"Doctorate of Letters (Honoris Causa)"** to **Mr. George Goh Ching Wah**, Chairman, The Border Mission, Singapore by Hon'ble Chief Guest-**Dr. Jyotsna Suri; Hon'ble** Chancellor-**Mr. Sunil Kant Munjal** and Hon'ble Vice Chancellor-**Prof. Manoj K Arora**

Convocation Address by **Hon`ble Chief Guest-Dr. Jyotsna Suri**, Chairperson and Managing Director, Bharat Hotels Limited

Conferment of degrees by Hon`ble Chancellor-**Mr. Sunil Kant Munjal**; and Hon`ble Vice Chancellor-**Prof. Manoj K Arora**

Conferment of degrees by Hon`ble Vice Chancellor-**Prof. Manoj K Arora**

AUDITED FINANCIAL ACOUNTS

ALAG KUMAR & ASSOCIATES
CHARTERED ACCOUNTANTS

H. O.: C-460, DEFENCE COLONY
NEW DELHI-110024
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Email: info@gsalag.com

INDEPENDENT AUDITOR'S REPORT

To the Trustees of **BML Munjal University**

Opinion

We have audited the financial statements of **BML Munjal University**, which comprise the Balance Sheet as at March 31st 2019, the Income and Expenditure account and Statement of Cash Flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements give a true and fair view of the financial position of the entity as at March 31, 2019, of its financial performance and its cash flows for the year then ended in accordance with the Accounting Standards issued by the Institute of Chartered Accountants of India (ICAI).

Basis for Opinion

We conducted our audit in accordance with the Standards on Auditing (SAs) issued by ICAI. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the entity in accordance with the Code of Ethics issued by ICAI and we have fulfilled our other ethical responsibilities in accordance with the Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance and cash flows of the entity in accordance with the accounting principles generally accepted in India. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fare view and are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the entity's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the entity or to cease operations, or has no realistic alternative but to do so.
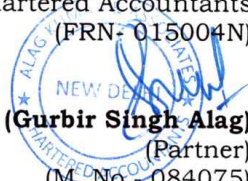
Those charged with governance are responsible for overseeing the entity's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

A further description of the auditor's responsibilities for the audit of the financial statements is attached as Annexure 1. This description forms part of our auditor's report.

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For **Alag Kumar & Associates**
Chartered Accountants
(FRN: 015004N)

(Gurbir Singh Alag)
(Partner)
(M. No. 084075)
UDIN: 19084075AAAACJ4384

</div>

Place of Signature:
Date:28 Sept. 2019

BML MUNJAL UNIVERSITY

2nd Floor, Tower 2, NBCC Plaza building, Sector - 5, Pushp Vihar, Saket, New Delhi - 110017

BALANCE SHEET AS ON 31st MARCH , 2019

(Amount in ₹)

PARTICULAR	SCHEDULE	As on 31st March, 2019	As on 31st March, 2018
Source of Fund			
Corpus Fund			
General Corpus	1	1007,82,989	957,82,989
Designated and Restricted Funds	2	5991,17,697	6714,15,421
		6999,00,686	**7671,98,410**
Non Current Liabilities			
Long Term Provisions	7	60,47,571	45,02,833
Security Deposit Students		288,38,500	327,49,500
Vehicle Loan	14	8,32,256	32,68,765
		357,18,327	**405,21,098**
Current Liabilities and Provisions			
a. Current Liabilities			
I. Advance from Sponsoring Body		8734,46,025	9009,52,764
II Advance Fee	3	1273,80,228	1254,88,936
III. Deposits	4	166,05,500	104,81,500
IV. Sundry Creditors	5	629,37,646	611,44,531
V. Other Current Liabilities	6	476,58,436	464,94,137
VI. Vehicle Loan	14A	24,36,510	21,51,750
		11304,64,345	**11467,13,618**
Short Term Provisions	7A	21,13,007	18,12,901
		21,13,007	**18,12,901**
Total Corpus & Liabilities		**18681,96,365**	**19562,46,027**
Application of Fund			
Non Current Assets			
Property,Plant and Equipment	8		
Gross Block		11664,65,151	10820,60,999
Less: Depreciation		3679,45,713	2508,14,995
Net Block		**7985,19,438**	**8312,46,004**
Investment	9	**1311,28,655**	**1092,09,497**
Deposits	13	**55,37,370**	**83,99,496**
Current Assets			
Cash & Bank Balance	10	212,56,507	389,30,429
Receiveables	11	68,38,908	160,41,608
Loan & Advances	12	159,16,368	327,04,298
Deposits	13A	118,90,585	69,10,265
		559,02,368	**945,86,600**
Income & Expenditure Account			
Brought Forward Loss		9128,04,429	8009,17,582
Add:Current Year Loss /(Profit)		(356,95,895)	1118,86,848
		8771,08,534	**9128,04,430**
TOTAL		**18681,96,365**	**19562,46,027**

The above note form an integral part of balance sheet
In terms of our report of even date attached

For Alag Kumar & Associates
Chartered Accountants
FRN-015004N

For and on behalf of BML Munjal University

(Gurbir Singh Alag)
Partner
M.NO- 084075

(Sunil Kant Munjal)
Chancellor

(Naveen Parasar)
CFAO

Place: New Delhi
Date:

BML MUNJAL UNIVERSITY

2nd Floor, Tower 2, NBCC Plaza building, Sector - 5, Pushp Vihar, Saket, New Delhi - 110017

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH , 2019

(Amount

PARTICULARS	SCHEDULE	As on 31st March, 2019	As on 31st March,
INCOME			
Student Fees	15	3848,23,613	2485,9
Lodging & Boarding	16	2162,29,426	1982,5
Other Fees - Student	17	244,71,043	274,3
Other Income	18	391,46,910	366,1
Interest Income	19	91,32,938	67,8
TOTAL		**6738,03,930**	**5176,8**
EXPENDITURE			
Establishment Expenses	20	1620,64,150	1607,55
Personnel Expenses	21	2650,09,246	2381,92
Administrative Expenses	22	1747,70,509	1898,15
Interest on Loan		7,88,721	5,03
Depreciation	8	354,75,409	403,04
TOTAL		**6381,08,035**	**6295,7**
Excess of Income over Expenditure transferred to Corpus		**356,95,895**	(1118,86

The above note form an integral part of profit and loss account
In terms of our report of even date attached

For Alag Kumar & Associates
Chartered Accountants
FRN-015004N

(Gurbir Singh Alag)
Partner
M.NO- 084075

For and on behalf of BML Munjal University

(Sunil Kant Munjal)
Chancellor

(Naveen Parasar)
CAFO

Place: New Delhi
Date: 2 8 SEP 2019

BML MUNJAL UNIVERSITY

2nd Floor, Tower 2, NBCC Plaza building, Sector - 5, Pushp Vihar, Saket, New Delhi - 110017

CASH FLOW STATEMENT FOR THE YEAR ENDED 31st MARCH, 2019

(Amount in ₹)

Particular	As on 31st March, 2019	As on 31st March, 2018
A. **Cash Flow From Operating Activities :**		
Net Profit before Tax and Extraordinary items	356,95,895	(1118,86,848)
Add:		
Depreciation	354,75,409	403,04,598
Provisions for Expenses	165,79,590	222,22,749
Loss on Disposal of Assets	12,60,794	-
Misc Balance written off	8,00,575	-
TDS Adjustment w/off	1,46,143	-
Provision for Gratuity	15,19,325	14,92,358
Provision for Leave encashment	32,65,546	8,01,032
Operating Profit Before Working Capital Changes	**947,43,277**	**(470,66,111)**
Decrease /(Increase) in Receivables	84,02,125	(136,02,188)
Decrease /(Increase) in Loans & Advances	167,87,930	(133,71,487)
Decrease /(Increase) in Deposits	(49,80,320)	(15,84,109)
Increase /(Decrease) in Advance Fees	18,91,292	379,11,837
Increase /(Decrease) in Deposits	61,24,000	64,76,400
Increase /(Decrease) in Creditors	17,93,115	(107,31,184)
Increase /(Decrease) in Other Current Liabilities	(155,61,434)	16,70,098
Increase /(Decrease) in Provisions	(18,12,901)	(31,75,090)
Increase /(Decrease) in Advances	(275,06,739)	352,78,722
Increase /(Decrease) in Current Loan Vehicle	2,84,760	17,06,431
Changes in Working Capital	**(145,78,173)**	**405,79,430**
Changes in non current assets and liabilities		
Increase /(Decrease) in Loan Vehicle	(24,36,509)	23,60,397
Increase /(Decrease) in Security Deposit	(39,11,000)	29,76,113
Decrease /(Increase) in Deposits	28,62,126	-
Increase /(Decrease) in Long term Provision	(11,27,126)	5,92,462
Increase /(Decrease) in Designated fund	103,85,532	1387,72,908
Changes in non current assets and liabilities	**57,73,023**	**1447,01,880**
Net Cash Flow from operating activities	**859,38,127**	**1382,15,199**
II. **Cash Flow From Investing Activities**		
Purchase of fixed Assets	(866,92,891)	(1066,32,409)
Purchase of Mutual Funds	(608,61,364)	
Net Cash Flow From Investing Activities	**(1475,54,255)**	**(1066,32,409)**
III **Cash Flow from Financial Activities**		
Corpus Funds Received	50,00,000	450,00,000
Net Cash Flow from Financial Activities	**50,00,000**	**450,00,000**
Net Increase/ Decrease in Cash & Cash Equivalents	**(566,16,128)**	**765,82,789**
Add: Cash and Cash Equivalents at the beginning of the financial year	1481,39,926	715,57,136
Cash and Cash Equivalents at the end of the financial year.	915,23,798	1481,39,926
Details of Cash & Cash Equivalents at the end of the year		
i) Cash in Hand	1,00,403	52,348
ii) Balance in Saving Account with Scheduled Bank	211,56,104	388,78,081
iii) Fixed Deposit with Scheduled Bank	702,67,291	1092,09,497
	915,23,798	1481,39,926

The above note form an integral part of balance sheet
In terms of our report of even date attached

For Alag Kumar & Associates
Chartered Accountants
FRN-015004N

For and on behalf of BML Munjal University

(Gurbir Singh Alag)
Partner
M.NO- 084075
Place: New Delhi
Date:

(Sunil Kant Munjal)
Chancellor

(Naveen Parasar)
CFAO

BML MUNJAL UNIVERSITY

2nd Floor, Tower 2, NBCC Plaza building, Sector - 5, Pushp Vihar, Saket, New Delhi - 110017

Schedules forming integral part of the Financial Statements .

Amount in ₹

SCHEDULE 1	As on 31st March, 2019	As on 31st March, 2018
Corpus fund		
Op. Balance	957,82,989	507,82,989
Additions during the Year	50,00,000	450,00,000
TOTAL	1007,82,989	957,82,989

SCHEDULE 2	As on 31st March, 2019	As on 31st March, 2018
A. Restricted Funds		
Project Funds	38,29,461	25,09,463
B. Designated Funds		
CSR Assets Plant & Machinery	1400,78,028	1647,97,680
CSR Assets Office Equipment	24,57,607	28,91,302
CSR Assets Computers & Laptops	44,42,534	74,04,224
CSR Assets Furniture & Fixture	35,78,278	39,75,865
CSR Assets Building	3184,89,063	3538,76,737
Project Fund - Hero Group	1147,06,069	1355,01,150
Hero Scholarship Fund	112,65,657	-
Distressed Policy Fund	2,71,000	4,59,000
TOTAL	5991,17,697	6714,15,421

SCHEDULE 3	As on 31st March, 2019	As on 31st March, 2018
Advance Fee		
Advance Tution Fee	805,30,221	779,55,223
Advance Room Charegs	276,31,434	279,02,642
Advance Food Charge	173,03,000	178,08,000
Other Advance	19,15,573	18,23,071
Total	1273,80,228	1254,88,936

SCHEDULE 4	As on 31st March, 2019	As on 31st March, 2018
Deposits		
Student Security Deposits - Current	130,05,500	76,31,500
Others Deposits & Advances- Students	36,00,000	28,50,000
Total	166,05,500	104,81,500

SCHEDULE 5	As on 31st March, 2019	As on 31st March, 2018
Creditors		
Creditors For Expenses	615,94,524	604,02,996
Others Creditors	13,43,122	7,41,535
Total	629,37,646	611,44,531

SCHEDULE 6	As on 31st March, 2019	As on 31st March, 2018
Other Current Liabilities		
Audit Fee Payable	4,50,000	5,00,000
Duties & Taxes	54,46,751	46,51,418
Salary & Wages Payable	184,70,864	157,21,358
Full & Final Payable	-	8,25,386
LTA Payable	14,76,937	13,13,043
EPF & PF & ESI Payable	10,27,637	9,24,501
Other Expenses Payable	183,91,172	222,28,431
Advance Summer Programme	23,95,075	3,30,000
Total	476,58,436	464,94,137

BML MUNJAL UNIVERSITY

2nd Floor, Tower 2, NBCC Plaza building, Sector - 5, Pushp Vihar, Saket, New Delhi - 110017

Schedules forming integral part of the Financial Statements

Schedule 8: Property Plant & Equipment

PARTICULARS	Gross Block							RATE	Depreciation						Net Block	
	As at 1 April 2018	ADDITION			Total	Deletion	As at 31 March 2019		As at 1 April 2018	BEFORE 1.10.18	For the year AFTER 1.10.18	Deletion	Total	As at 31 March 2019	As at 1 April 2018	As at 31 March 2019
		BEFORE 1.10.18	AFTER 1.10.18													
(A)First Block 15%																
PLANT & MACHINERY	2978,65,720	249,27,498	18,45,940	-	267,73,438	-12,80,735	3233,58,422	15%	626,56,137	388,28,452	1,38,446	-5,71,350	383,95,547	1010,51,684	2352,09,583	2223,06,738
OFFICE EQUIPMENTS	1147,40,217	101,69,243	14,48,729	-	116,17,972	-2,85,742	1260,72,447	15%	257,80,555	148,26,474	1,08,655	-1,15,410	148,19,719	406,00,274	889,59,662	854,72,173
VEHICLES	86,85,294			-			86,85,294	15%	14,64,647	10,83,097			10,83,097	25,47,744	72,20,647	61,37,550
(B)Second Block 60%	-						-		-						-	-
COMPUTERS & LAPTOPS	943,41,264	57,84,493	4,95,015	-	62,79,508		1006,20,772	40%	736,40,502	105,94,102	99,003		106,93,105	843,33,607	207,00,762	162,87,165
LAPTOP	-						-	40%	-	-			-	-	-	-
(C)Third Block 25%	-						-		-						-	-
SOFTWARE	106,12,101						106,12,101	25%	49,60,049	14,13,013			14,13,013	63,73,062	56,52,052	42,39,039
COPYRIGHT & PATENTS	-						-	25%	-	-			-	-	-	-
(D)Fourth Block 10%	-						-		-						-	-
FURNITURE & FIXTURE	1579,85,536	223,75,728	18,36,635	-	242,12,363	-4,75,525	1817,22,373	10%	397,15,546	140,17,019	91,832	-1,63,534	139,45,317	536,60,863	1182,69,989	1280,61,510
(E)Fifth Block 60%	-						-		-						-	-
LIBRARY BOOKS	46,34,494	3,77,667	6,95,338	-	10,73,005	-2,46,737	54,60,762	40%	32,77,921	5,95,001	1,39,068	-1,77,651	5,56,418	38,34,338	13,56,573	16,26,424
(F)Fifth Block 10%	-						-		-						-	-
Building	3931,96,375		167,36,605	-	167,36,605		4099,32,980	10%	393,19,638	353,87,674	8,36,830		362,24,504	755,44,141	3538,76,738	3343,88,839
	10820,60,999	636,34,629	230,58,262	-	866,92,891	-22,88,739	11664,65,151		2508,14,995	1167,44,833	14,13,833	-10,27,945	1171,30,720	3679,45,713	8312,46,004	7985,19,438

BML MUNJAL UNIVERSITY
2nd Floor, Tower 2, NBCC Plaza building, Sector - 5, Pushp Vihar, Saket, New Delhi - 110017
Schedules forming integral part of the Financial Statements .

Amount in ₹

SCHEDULE 7	As on 31st March, 2019	As on 31st March, 2018
Provisions		
Long Term Provisions		
Leave Encashment Payable - Non Current	60,47,571	45,02,833
Total	60,47,571	45,02,833

SCHEDULE 7A	As on 31st March, 2019	As on 31st March, 2018
Provisions		
Short Term Provisions		
BMU Employee Gratuity Trust	15,19,325	14,92,358
Leave Encashment Payable - Current	5,93,682	3,20,543
Total	21,13,007	18,12,901

SCHEDULE 9	As on 31st March, 2019	As on 31st March, 2018
Investments		
FDR with Scheduled Banks	694,23,026	1087,40,880
Intrest Accured On FDR	8,44,265	4,68,617
Mutual Funds	608,61,364	-
TOTAL	1311,28,655	1092,09,497

SCHEDULE 10	As on 31st March, 2019	As on 31st March, 2018
Cash & Bank Balances		
Cash in Hand	1,00,403	52,348
Cash at Bank	211,56,104	388,78,081
TOTAL	212,56,507	389,30,429

SCHEDULE 11	As on 31st March, 2019	As on 31st March, 2018
Receivables		
Student Fees Receiveables	28,57,830	19,90,370
Other Receiveables	39,81,078	140,51,238
Total	68,38,908	160,41,608

SCHEDULE 12	As on 31st March, 2019	As on 31st March, 2018
Loans & Advances		
Advance to Suppliers	72,58,833	224,36,991
Imprest	2,36,730	3,03,745
Loan to Employee	-	45,000
Prepaid Subscription & Expenses	82,55,150	95,41,419
PAY U A/c	1,65,655	3,60,475
Tour Advance	-	16,668
TOTAL	159,16,368	327,04,298

SCHEDULE 13	As on 31st March, 2019	As on 31st March, 2018
Deposit		
Rent	55,37,370	83,99,496
	55,37,370	83,99,496

SCHEDULE 13A	As on 31st March, 2019	As on 31st March, 2018
Deposit		
Others	35,19,870	8,61,025
TDS Recoverable	83,70,715	60,49,240
Total	118,90,585	69,10,26*

SCHEDULE 14	As on 31st March, 2019	As on 31st March, 2018
Non - Current		
Loan - Vehicle	8,32,256	32,68,765
Total	8,32,256	32,68,765

SCHEDULE 14 A	As on 31st March, 2019	As on 31st March, 2018
Current		
Loan - Vehicle	24,36,510	21,51,750
Total	24,36,510	21,51,750

BML MUNJAL UNIVERSITY

2nd Floor, Tower 2, NBCC Plaza building, Sector - 5, Pushp Vihar, Saket, New Delhi - 110017

Schedules forming integral part of the Financial Statements

Amount in ₹

SCHEDULE 15	As on 31st March, 2019	As on 31st March, 2018
Tution Fees		
Tution Fees	3848,23,613	3314,71,250
Scholarship Fees	(887,34,344)	(828,74,877)
Contribution from Hero Scholarship Fund	887,34,344	-
TOTAL	**3848,23,613**	**2485,96,373**

SCHEDULE 16	As on 31st March, 2019	As on 31st March, 2018
Lodging & Boarding		
Room Charges	1360,31,702	1247,64,813
Food Charges	801,97,724	734,91,250
Total	**2162,29,426**	**1982,56,063**

SCHEDULE 17	As on 31st March, 2019	As on 31st March, 2018
Other Fees - Students		
Application Fee	43,89,670	43,37,050
Registration Fee	32,15,000	54,56,472
Recourse Examination Fee	20,61,000	33,55,100
Other income	148,05,373	142,86,546
TOTAL	**244,71,043**	**274,35,168**

SCHEDULE 18	As on 31st March, 2019	As on 31st March, 2018
Other Income - Indirect Income		
Other Income-Indirect	6,44,523	25,35,817
Executive Development Programme	181,04,355	102,67,808
Donation Received	203,98,032	238,11,796
TOTAL	**391,46,910**	**366,15,421**

SCHEDULE 19	As on 31st March, 2019	As on 31st March, 2018
Interest Income		
Bank Interest	28,96,553	32,86,131
Interest on FDR	42,40,757	13,08,403
Income from Mutual Funds	19,95,628	21,87,365
TOTAL	**91,32,938**	**67,81,899**

SCHEDULE 20	As on 31st March, 2019	As on 31st March, 2018
Establishment Expenses		
Consumable Items	15,20,974	11,68,509
Electricity Expenses	191,10,974	120,98,675
Lodging & Boarding	505,58,578	620,59,916
DG Set Running & Maint.	47,40,293	50,43,153
Repair & Maintenance Charges	310,54,596	175,50,654
Horticulture Expenses	39,73,725	50,39,290
Housekeeping Expenses & Materials	296,34,673	343,82,325
Laundary Expense	55,65,258	47,00,053
Machinery/ Equipment Rental	11,43,678	6,57,703
Watch & Ward Charges	147,61,401	180,55,013
Total	**1620,64,150**	**1607,55,292**

BML MUNJAL UNIVERSITY

2nd Floor, Tower 2, NBCC Plaza building, Sector - 5, Pushp Vihar, Saket, New Delhi - 110017

Schedules forming integral part of the Financial Statements

Amount in ₹

SCHEDULE 21	As on 31st March, 2019	As on 31st March, 2018
Personnel Expenses		
EPF & PF Charges	67,53,011	66,43,047
Gratuity	15,19,325	14,92,358
Leave Encashment	32,65,546	26,92,877
Medical Insurance Expenses	19,57,105	22,12,426
Professional Development Allownce	27,39,980	7,78,102
Salaries and Wages	2287,14,313	2102,20,761
Driver Expenses	1,54,922	4,57,919
Festival Celebration	10,67,685	13,34,456
Staff Welfare Expenses	9,93,689	23,63,094
Visiting Faculty-Professional Fee	178,43,670	99,97,668
TOTAL	**2650,09,246**	**2381,92,708**

SCHEDULE 22	As on 31st March, 2019	As on 31st March, 2018
Administrative Expenses		
Audit Fee & Expenses	6,05,480	5,92,911
Convocation & workshops	106,06,220	91,86,585
Office Lease Rent	137,68,786	198,37,135
Gift Expenses	2,47,570	2,88,214
Freight Charges	14,750	16,346
Guest House Expenses	18,153	3,384
Honorarium Expenses	1,37,930	17,000
Hotel Staying Charges	4,48,207	2,67,148
Inspection & Recogination Fee	11,50,000	-
Insurance Expenses	9,73,075	9,64,932
International Collebaration	2,67,330	-
Internet Charges & Telephone charges	45,24,744	75,91,526
Lab Expenses	12,40,782	28,06,564
Licence Fees	35,28,790	81,04,028
Legal, Law Cost & Stamp Expense	1,07,338	9,56,371
Local Conveyance	17,18,620	12,97,625
Loss on Dispose of Assets	12,60,794	-
Marketing & Promotional Exp.	566,17,892	650,06,096
Membership Fee	14,59,515	10,15,357
MIsc. Balances Written Off	9,46,718	-
Misc. Expenses	2,71,993	1,59,324
Orientation Exp	6,77,960	8,47,682
Parking & Toll Exp	57,460	28,976
Postage & Courier Charges	1,81,979	1,11,594
Printing & Stationary Charges	26,23,274	20,24,981
Professional & Consultancy Charges	405,69,254	279,45,201
Rates and Taxes	2,70,809	18,657
Recruitment Expenses	42,93,827	41,83,436
Acadamic Support Charges	-	161,49,805
Shifting Expenses	5,32,266	2,30,852
Students Books & Welfare	64,89,302	40,18,169
Subscription Charges	62,34,473	53,66,142
Training & Research Expenses	24,53,278	42,17,721
Travelling Expense	96,17,756	62,24,059
Vehicles Running & Maintenance	2,92,061	1,62,739
Website Domain Charges	5,04,121	1,52,313
Bank Charges	58,002	22,516
TOTAL	**1747,70,509**	**1898,15,389**

BML MUNJAL UNIVERSITY

Schedules forming part of the financial statements for the year ended March 31, 2019

SCHEDULE – 23

Significant accounting policies and notes to the financial statements

A. SIGNIFICANT ACCOUNTING POLICIES

1. **Organization and nature of operations**

   BML Munjal University is a private, not for profit institution of higher education set up under license from Haryana Private Universities Act 2006, on 2nd May 2014, vide Gazette Notification No. 24/2014. The university includes the School of Engineering and School of Commerce offering courses for both undergraduate and post graduation.

   The University is registered under section 12AA of the Income tax Act, 1961 (the 'Act') as a Charitable Body carrying out educational activity.

2. **Basis of preparation**

   The financial statements are prepared under the historical cost convention, on accrual basis of accounting in accordance with the generally accepted accounting principles in India, and the Indian Accounting Standards as applicable.

3. **Funds**

   The University has received donation of INR 5,000,000 towards corpus fund during the financial year.

   The University reports funds as restricted if they are received with donor stipulations that limit the use of the fund. Accordingly the grants received for research and related activities are reported as Project Funds in the financial statements. The University during the year has received "Project Funds – Hero Group" of INR 114,706,069.

   Donations received in the form of fixed assets are recognized in the books as Designated Funds at the cost incurred by the donor in creating/acquiring these assets.

   Donations received towards scholarship for meritorious and economically weaker students are recognized in the books as Restricted Funds. Scholarship awarded during the year is appropriated from this fund to the extent available.

Schedules forming part of the financial statements for the year ended March 31, 2019

SCHEDULE – 23

4. Fixed assets, Depreciation and Impairment

Tangible assets

Fixed assets are stated at cost or revalued amount less accumulated depreciation and impairment losses. Cost comprises the purchase price and any attributable costs of bringing the assets to their working condition for their intended use.

Land & Building provided by Sponsoring Body M/s BML Educorp Services for the benefit of BML Munjal University is not recorded in the financial statements. The University has the right to use of land and building being owned by the Sponsoring Body.

Intangible assets

Computer software which is not an integral part of the related hardware is classified as an intangible asset.

Depreciation

Depreciation and amortization on fixed assets is provided as per the provisions/rates prescribed under section 32 of Income Tax Act, 1961.

Depreciation on the assets received as donation is appropriated out of the related Designated Funds at the end of each reporting period.

Impairment

The University assesses at each balance sheet date whether there is any indication that an asset may be impaired. If any such indication exists, the University estimates the recoverable amount of the asset. If such recoverable amount of the asset is less than its carrying amount, the carrying amount is reduced to its recoverable amount. The reduction is treated as an impairment loss and is recognized in the income and expenditure account. If at the balance sheet date there is an indication that if a previously assessed impairment loss no longer exists, the recoverable amount is reassessed and the asset is reflected at the recoverable amount subject to a maximum of depreciated historical cost.

Schedules forming part of the financial statements for the year ended March 31, 2019

SCHEDULE – 23

5. Capital work in progress

Capital work in progress includes advances paid to acquire fixed assets and the cost of fixed assets that are not ready for the intended use as at the Balance Sheet date.

6. Investments

Investments that are readily realizable and intended to be held for not more than a year are classified as current investments. All other investments, if any, are classified as long-term investments. Current investments are carried at lower of cost and fair value determined on an individual investment basis. Long-term investments are carried at cost.

7. Liabilities

Long term liabilities on account of security deposit is being reported as "Current Liabilities" in the financial statements. Other liabilities are reported as "current" and "non-current" depending on the short term or long term nature of the liability.

8. Revenue recognition

Student Fee

Income from fees received from students is recognized over the period of instruction.

Admission fee

Income from non - refundable admission fees received from the students is recognized as income in the year of receipt

Food and Room Charges

Charges for food and room received from students are recognized over the period of instruction.

Donation

Income from donation is recognized on cash basis.

Investment Income

Interest income from investment is recognized on a time proportion basis taking into account amount outstanding and the rate applicable. Profit/loss on sale of investments is computed with reference to their actual cost.

9. Retirement Benefits

Expenses and liabilities in respect of employee benefits are recorded in accordance with Accounting Standard 15 Employee Benefits (Revised 2005).

a) Provident fund

All the employees are entitled to receive benefits under the provident fund, which is a defined contribution plan, in accordance with Employees Provident Fund and Miscellaneous Provisions Act, 1952. Both, the employee and the employer make monthly contributions to the plan at a predetermined rate of the employees' basic salary. The Company has no further obligations under the plan beyond its monthly contributions. These contributions are made to the Regional Provident Fund Commissioner.

b) Gratuity

Gratuity is a post employment defined benefit plan. The liability recognized in respect of gratuity is the present value of the defined benefit obligation at the balance sheet date less the fair value of plan assets, together with adjustments for unrecognized actuarial gains or losses and past service costs. The defined benefit obligation is calculated annually by actuaries using the projected unit credit method. Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to the profit and loss account in the year in which such gains or losses arise.

The University contributes Funds to the approved Employee Gratuity Trust for the sole purpose of provision of a gratuity to its employees. The University contribution to the Trust Funds as envisaged under Part C of the Fourth Schedule of the Income Tax Act, 1961 is as per the independent actuarial valuation of gratuity liability.

Schedules forming part of the financial statements for the year ended March 31, 2019

SCHEDULE – 23

c) Compensated absence

The University measures and recognizes the liability in respect of the expected cost of accumulating compensated absences as the additional amount that it expects to pay as a result of the unused entitlement that has accumulated at the balance sheet date.

10. Provisions & Contingent liabilities

The University creates a provision when there is a present obligation as a result of a past event that probably requires an outflow of resources and a reliable estimate can be made of the amount of the obligation. Disclosure for a contingent liability is made when there is a present obligation that may, but probably will not, require an outflow of resources. Disclosure is also made in respect of a present obligation as a result of past event that probably requires an outflow of resource, where it is not possible to make a reliable estimate of the outflow. Where there is a present obligation in respect of which the likelihood of outflow of resources is remote, no provision or disclosure is made.

11. Borrowing Costs

Borrowing costs directly attributable to the acquisition and construction of qualifying assets are added to the cost upto the date when such assets are ready for their intended use. The other borrowing costs are recognized as expense in the period in which these are incurred.

12. Foreign Exchange Transactions

Transactions denominated in foreign currencies are recorded at the exchange rate prevailing on the date of the transaction. At the year-end, monetary items denominated in foreign currencies are converted into rupee equivalent at the year-end exchange rates. All exchange differences arising on settlement/conversion of foreign currency transactions are recorded in the Income & Expenditure account.

BML MUNJAL UNIVERSITY

Schedules forming part of the financial statements for the year ended March 31, 2019

SCHEDULE – 23

B. NOTES TO THE FINANCIAL STATEMENTS

1. Property, Plant and Equipment

As stipulated in the clause 5 of the Haryana Private Universities Act 2006, the Sponsoring Body had provided for the following fixed assets to the University.

PARTICULARS	AMOUNT (INR)
Computer & Equipments	19,681,649
Books & Journals	2,418,273
Furniture & Fixture	23,726,026

2. Advance from Sponsoring Body

Sponsoring Body had given an advance to the University. Out of the advance received an amount of INR 873,446,025 is payable on the balance sheet date. The amount is repayable on demand.

3. Employee benefits

Provident Fund Contribution
The University has contributed INR 5,868,151 as employer share to the provident fund during the year.

Gratuity
Gratuity liability under the 'Payment of Gratuity Act, 1972' is accrued and provided for on the basis of an actuarial valuation made as at March 31, 2019.

Assumptions	2019	2018
Discount rate	7.70%	7.40%
Expected return on assets	NIL	NIL
Withdrawal rate	5% to 1%	5% to 1%
Salary increases	7%	7%
Mortality	------IALM (2006-08)----	

BML MUNJAL UNIVERSITY

Schedules forming part of the financial statements for the year ended March 31, 2019

SCHEDULE – 23

Compensated Absences

Provision for short-term compensated absences, where the absences are expected to occur within twelve months after the end of the period in which the employees render the related employee service is made based on un-availed leaves outstanding as on the balance sheet date.

4. The University has identified the micro and small enterprises based upon the information available, and there are no dues outstanding to these micro and small enterprises as at March 31, 2019. Further, no interest during the year has been paid or payable under the terms of the MSMED Act, 2006.

For Alag Kumar & Associates   **For and on behalf of the BML MUNJAL UNIVERSITY**

Chartered Accountants
FRN-015004N

(Gurbir Singh Alag)   **(Sunil Kant Munjal)**   **(Naveen Parasar)**
Partner   **(Chancellor)**   **(CFAO)**
M.NO- 084075
Place: New Delhi
Date: 2 8 SEP 2019