



M.B.M. ENGINEERING COLLEGE

Faculty of Engineering, Jai Narain Vyas University, Jodhpur

Department of Civil and Structural Engineering

B.E. | M.E. | PhD

PLACEMENT BROCHURE

Session 2020-2021



DEPARTMENT OF CIVIL & STRUCTURAL ENGINEERING

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INTRODUCTION TO MBM

M.B.M. Engineering College, established on 15th August 1951 by the Government of Rajasthan, is one of the oldest engineering institutions in the country. Later in 1962, the college became a constituent faculty of Jai Narain Vyas University, Jodhpur. The college boasts of its high standards of education, prestigious legacy and a flourishing environment that caters for the overall development of its students, faculties and staff members. Located on a 98 acre campus situated within the 5 Km radius of all major landmarks of the Jodhpur City, the college is applauded for its vast infrastructure.



Main Administrative Building of M.B.M. Engineering College, Jodhpur

With a vision to cater to the growing needs of the society and industry, the institute has always been a pioneer in incorporating latest domains of engineering education and research. Currently, the institute offers 14 undergraduate, 25 postgraduate and 10 doctoral research programmes to the aspiring students. Several factors including good infrastructure, cutting-edge curriculum, reputed faculties, low educational costs and nourishing environment makes M.B.M. Engineering College a first choice for students within Rajasthan as well as from other states across the country.

The college is proud of its huge alumni base who have always excelled in their career and are contributing through top positions within industry, governmental bodies and academia. Many of them are also working as professors in IITs, IIMs and other prestigious technical institutions. The institute strives to maintain a culture and environment that enables our students to become responsible, ethical and true professionals.

ABOUT US

The department of Civil Engineering is the founding department of M.B.M. Engineering College established in 1951, over the years has grown tremendously, and recognized as one of the best and major engineering departments for Civil Engineering in the state and in India.





The department of Structural Engineering was split from department of Civil Engineering in 1962 and since both departments collaboratively offer B.E. in Civil Engineering, M.E. in Environmental Engineering, Geo-Technical Engineering, Transportation Engineering, and Structural Engineering. The departments also have a vibrant PhD program in various areas of Civil and Structural Engineering. The academic activities of the departments emphasize on deep understanding of fundamental principles, development of creative ability to handle the challenges of Civil and Structure Engineering, and the analytical ability to solve problems which are interdisciplinary in nature. The departments also encourage its students to engage in extra-curricular and co-curricular activities, essential for development, nurturing team spirit and developing organizational skills. The faculty members of the department are involved in quality research and consultancy activities.

The departments has 13 faculty members to nurture about 120 undergraduate students passing this year.

VISION OF DEPARTMENT:

"To produce a quality human resource of world-class standard who will excel in Education and Consultancy in the field of Civil Engineering with emphasis on Sustainable Development."

MISSIONS OF THE DEPARTMENT:

-  To develop students into capable civil engineering graduates by providing the quality education in Civil Engineering
-  Imbibing wide-range of skills in cutting-edge technology for sustainable development so that they can meet the challenges faced by the Nation.
-  Take ethical decisions and express a dedication to service
-  Maintain lifetime learning, and to be masters, both in their chosen profession

ACADEMICS

The course curriculum of the department is designed with special focus to effectively meet the current challenges of the industries and the recent developments in the field practices. The department offers the students wide range of courses, taught by eminent professors with decades of industry/field and research exposure, enabling students to pursue their dream courses in-depth and build core competency. With practical exposure through two mandatory summer field/research internships and regular workshops, visits, and other techno-managerial activities students of Civil/Structural Engineering are honed in their skill sets, making them versatile and industry-ready.

PROGRAMS OFFERED

| Degree | Branch / Specialization | Duration | Year Started | Present Intake |
|--------------------------------|----------------------------|----------|--------------|----------------|
| Bachelor of ENGINEERING | Civil Engineering | 4 Yrs | 1951 | 120 |
| Master of ENGINEERING | Environmental Engineering | 2 Yrs | 1977 | 18+13* |
| | Geotechnical Engineering | 2 Yrs | 1965 | 18+18* |
| | Transportation Engineering | 2 Yrs | 1966 | 18 |
| | Structural Engineering | 2 Yrs | 1966 | 23+1* |
| Ph. D. | Civil Engineering | 3-5 Yrs | 1966 | - |
| | Structural Engineering | 3-5 Yrs | 1966 | - |

*Self finance seats

The department has well equipped laboratories to give opportunities to undergraduate students to have hands on experience and for post graduate students to carry out research in all areas of Civil and Structure Engineering.

MAJOR LABORATORIES IN THE DEPARTMENTS

- Fluid Mechanics Lab
- Water Resources & Hydropower Lab
- Surveying Lab
- Environmental Engineering Lab
- Geotechnical Engineering Lab
- Transportation Engineering Lab
- Structural Engineering workshop
- Material Testing Lab
- Concrete Lab
- Prototype testing Lab

ACADEMICS

CORE SUBJECTS (BE)

- CE-201 A: Fluid Mechanics-I
- CE-202 A: Surveying-I
- CE-203 A: Construction Technology-I
- SE-204 A: Strength of Materials
- SE-205 A: Transportation Engineering-I
- CE-251 A: Fluid Mechanics-II
- CE-252 A: Topographical Surveying
- CE-253 A: Construction Technology-II
- SE-254 A: Mechanics of Solids
- SE-255 A: Transportation Engineering-II
- CE-301 A: Geotechnical Engineering-I
- CE-302 A: Pipe Flow Hydraulics-I
- SE-303 A: Theory of Structures-I
- SE-304 A: Structural Design-I (RCC)
- SE-305 A: Structural Design II (Steel)
- CE-351 A: Geotechnical Engineering-II
- CE-352 A: Open Channel Hydraulics
- CE-353 A: Advanced Surveying
- SE-354 A: Structural Design III (RCC)
- SE-355 A: Structural Design IV (Steel)
- CE-401 A: Environmental Engineering - I
- CE-402 A: Hydrology & Dams
- CE-403 A: Engineering Economics & Management
- SE-404 A: Structural Design V (RCC)
- SE-405 A: Structural Design VI (Steel)
- SE-435 B: Estimating and Costing
- CE-411 A: Foundation Engineering
- CE-412 A: Rural Water Supply and Sanitation Engineering
- CE-415 A: Dams
- SE-461 A: Finite Element Method
- SE-462 A: Pre-stressed Concrete
- SE-463 A: Dynamics of Structures
- CE-451 A: Environmental Engineering-II
- CE-452 A: Water Resources Engineering
- SE-453 A: Architecture & Town Planning
- SE-454 A: Structural Design VII (RCC)
- SE-455 A: Structural Design VIII (Steel & General)

SUBJECTS (M.E. ENVIRONMENTAL ENGINEERING)

- CE-31 Environmental Biology & Microbiology
- CE-32 Advanced Water Supply & Waste Water Systems
- CE-33: Environmental Chemistry
- CE-34: Advanced Water Treatment
- CE-35: Advanced Sewage Treatment & Disposal
- CE-42: Industrial Water & Waste Water Engineering
- CE-43: Environmental Sanitation
- CE-46: Air Pollution
- CE-47: Rural Water Supply & Sanitation
- CE-52: Solid Waste Management

SUBJECTS (M.E. GEOTECHNICAL ENGINEERING)

- CE-1 Advanced Geotechnical Engineering I
- CE-2 Advanced Geotechnical Engineering II
- CE-3 Geotechnical Exploration and Testing
- CE-4 Soil Hydraulics
- CE-5 Earth Pressure and Design of Retaining Structure
- CE-6 Advanced Foundation Engineering
- CE-15 Rock Mechanics
- CE-27 Soil Stabilization and Ground Improvement
- CE-60 Dams
- CE-61 Expansive and Other Problematic Soils

LABS UNDER CIVIL ENGINEERING DEPARTMENT



SUBJECTS (M.E. TRANSPORTATION ENGINEERING)

- SE-111 Land Transportation
- CE-112 Traffic Engineering
- SE-113 Pavement Design and Performance I
- CE-114 Statistical and Computational methods
- SE-115 Pavement Design and Performance II
- CE-116 Transportation Planning and Economics
- SE-151 Bitumen Technology
- SE-152 Highway subgrade and Foundation
- CE-153 Low cost Roads
- SE-154 Pavement evaluation and Testing
- CE-155 Land use Planning
- CE-156 Urban Transportation

SUBJECTS (M.E. STRUCTURAL ENGINEERING)

- SE-111 Advanced Engineering Mechanics
- CE-112 Experimental Stress Analysis
- SE-113 Advanced Structural Analysis
- CE-114 Theory of Elasticity
- SE-115 Advanced Mathematics
- SE-151 Advanced Concrete Structures
- SE-152 Advanced Steel Structures
- CE-153 Finite Element Method
- SE-154 Dynamics of Structures

LABS UNDER STRUCTURAL ENGINEERING DEPARTMENT



HIGHLIGHTS

1. Every undergraduate student undergoes 30 + 45 days of industrial training cum internship and completes 01 minor project, 01 seminar and 01 major project. They are offered 03 stream-electives and 03 open-elective papers during their studies.
2. Every M.E. student, completes 01 seminar and 01 dissertation study during their 3rd & 4th semester of studies. Students are offered 04 elective papers in their first two semesters.
3. PhD students are allowed to choose the course work and research topics as per the recommendations of respective research supervisor subject to approval by department council. PhD students are registered as research scholars only after successful acceptance of their research synopsis by department council. Submission and acceptance of PhD Thesis is governed by latest university and UGC guidelines.

ACTIVITIES

To ensure overall development of its students, the department strives to augment the academics with many extension activities that foster innovation, competitiveness, responsibility and life-long learning within the students.



Under the guidance of experienced alumni and faculty members, our students also actively engage in many campus activities including training & placement, startup & entrepreneurship, brand building, environment management, mentoring juniors etc. Such collaborative activities allow us to maintain a supportive, friendly and nourishing environment that enables our students to become responsible, ethical and true professionals. Further, our students actively participate in and organize various activities under the following student clubs: *Sargam (Singing) club*, *Kalakriti (Arts) Club*, *Zenith (Drama) Club*, *Pratibimb (Theatre) Club*, *Self-Defense Club*, *Poetry Club*, *Debating Club*, *Environment Club*, *Health Awareness Club*. Our students have proved their mettle at national and international level events such as IITB's Institute Techfest, IITB's Department Techfest (AADHAR), IITJ's Ignus, IITR's Congizance etc.

ACHIEVEMENTS BY STUDENTS

The Department has been well known for its students securing the top ranks in national competitive examinations like UPSE-ESE, GATE, SSC-JE etc. and working in prestigious government institutions like DRDO, NHAI, CPWD, ISRO and other state/local govt. authorities like PWD, PHED, GWD etc. Our alumni have also been recruited by PSUs like HPCL, BPCL, BHEL, SAIL, NHPC, NTPC, IOCL etc. Many students have excelled in the field of Research and Developments and are currently progressing in top-notch technical institutions like IITs and NITs.

RECENT ACHIEVEMENTS



Kirti Kaushik
Batch: 2009-13
IES: Rank 7



Deepika Gill
Batch: 2009-13
IES: Rank 5



Vikash Sehra
Batch: 2010-14
IES: Rank 52



Dheeraj Goyal
Batch: 2009-13
IES: Rank 60



Anil Saraswat
Batch: 2010-14
IES: Rank 61



Rishabh Mehta
Batch: 2015-19
IES: Rank 101

MESSAGE FROM CIVIL DEPT. HEAD



Prof. Sunil Sharma

Head
Civil Engineering

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Sunilsharma063@hotmail.com

""Department of Civil Engineering, since its inception has been at the forefront of teaching and research in civil engineering. The department has introduced courses as per latest demand of time and society. We strive to ensure that our academic curriculum is at par with the latest development and advancement of technology in the industry and research at national & international level. The department has latest equipment and software in laboratories where students can perform experiments as well carry our hands-on projects.

The discipline of Civil Engineering at MBM Engineering College focuses on a multifaceted growth of students and is designed to equip them not only with the core theoretical and practical fundamentals of the discipline, but also evolve them into confident individuals, ready to make an impact on whatsoever profession (industrial work, research, entrepreneurship) they choose to pursue. Currently, the department offers B. Tech, M.Tech. and Ph.D. degrees with specializations in Environmental Engineering, Geotechnical Engineering, and Transportation Engineering.

Our efforts in student development reflects through the outstanding performance of our students in campus placements and in various prestigious industries.

I hope that our students fullfils all the dimensions required by the recruiter's expectations. I wish all the best to students for their bright future who are going to appear for placements.

I take this opportunity to invite all prospective recruiters and assure that our students are multifaceted and will be an asset if a chance is given to them to prove their talent."

MESSAGE FROM STRUCTURAL DEPT. HEAD



Prof. Ajay Sharma

Head
Structure Engineering

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"The Department of Structural Engineering has been recognized world over for the excellence in academics. We are continuously striving to improve the quality of education to meet the needs of industries and to excel in academics and research.

At present, the department offers subjects for M.E. in Structural Engineering, B.E. in Civil Engineering and M.E. in Transportation Engineering (in collaboration with department of Civil Engineering). The department has well equipped laboratories to give opportunities to undergraduate students to have hands on experience; and for post graduate students to carry out research in all areas related to structures and materials. The faculty actively participates in sponsored research and consultancy works.

The course curriculum of the department is designed with special focus to effectively meet the current challenges of the industries and the recent developments in the field practices. The department offers the students wide range of courses, taught by eminent professors with decades of industry/field and research exposure, enabling students to pursue their dream courses in-depth and build core competency. With practical exposure through two mandatory summer field/research internships and regular workshops, visits, and other techno-managerial activities students of Civil/Structural Engineering are honed in their skill sets, making them versatile and industry-ready".

PLACEMENTS

SOME OF OUR PAST RECRUITERS

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|  |  |  |  | many more... |

GOVERNMENT RECRUITERS

UPSC Indian Engineering Services, Railways, CPWD, MES, NHAI, CWC, BRO, RPSC, PWD, PHED, GWD, RVNL and many more...

CAMPUS RECRUITMENT TEAM

Training & Placement Officer



Prof. Arvind Kumar Verma

Mobile: +91-9414918856, 8079006631

Email: tpocellmbm@gmail.com

Website: www.mbm.ac.in

Training & Placement Cell,
M.B.M. Engineering College,
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