



Jawaharlal Nehru Engineering College

MGM Campus, CIDCO, Aurangabad - 431003

Website: <https://mgmu.ac.in/>, <https://www.jnec.org/>

Information Brochure

ONLINE

MGMU CET 2020 (M.Tech.)

MGMU CET 2020 (MCA)

MGMU CET 2020 (M.Arch.)

FOR

**Admission to First Year of Two-Year Full-Time Post
Graduate Degree Program (M.Tech., MCA and
M.Arch.) in “Engineering & Technology” and
“Architecture”**

(For Academic Year 2020-21)

POSTGRADUATE PROGRAMMES

JNEC, MGM University Aurangabad invites applications to its 4 Semester on-campus postgraduate programmes for the year 2020 – 2021. Admissions are open for the following programmes to be offered in MGM University Aurangabad.

Name of The Program	Approved Intake	Duration
M.Tech. Computer Science and Engineering (Digital Transformation)	18	2 Years
M.Tech. Electrical Power Systems	18	2 Years
M.Tech. VLSI and Embedded Systems	18	2 Years
M.Tech. Mechanical Engineering	18	2 Years
M.Tech. Structural Engineering	18	2 Years
Master of Computer Applications	60	2 Years
Masters in Architecture (General)	20	2 Years
Masters in Architecture (Environmental Architecture)	20	2 Years

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Help line number for Technical Assistance for Online application form filling is For **MGMU CET 2020 (M.Tech.): 9404494299**

MGMU CET 2020 (MCA): 8275247705

MGMU CET 2020 (M.Arch.): 9422711881

website: mgmu.ac.in, jnec.org

1. EXAMINATION SCHEDULE FOR MGMU CET 2020 (M.Tech. /MCA /M.Arch.)

Important Information for Entrance Examination

Schedule	M.Tech.	MCA	M.Arch.
Online registration & Confirmation of Application Form on website	Already Started...	Already Started...	Already Started...
Payment (Rs. 1000/-)	Online	Online	Online
Date, Time and Duration of Examination	9 th January 2021, 11 am, 1.5 hours	9 th January 2021, 11 am, 1 hour	9 th January 2021, 11 am, 1 hour
Centre of Examination	JNEC		
Declaration of Result	Result will be communicated to the candidate on the registered email id.		

2. INTRODUCTION

- The MGM University Aurangabad has established "ADMISSION REGULATING AUTHORITY AND In-charge COMMON ENTRANCE TEST CELL" as per the Maharashtra Act No XXVI of 2019).
- The In-charge MGMU CET Cell, has been designated as Competent Authority for conducting MGMU CET 2020 (M.Tech.), MGMU CET 2020 (MCA), MGMU CET 2020 (M.Arch.) and selection of candidates for admission to 2 Year Duration Full Time Post Graduate Degree programs in "Engineering and Technology" and "Architecture", for the academic year 2020-21.
- The Registrar, MGM University Aurangabad has notified the rules to regulate the admissions to the First Year of Full Time Professional Post-graduate programs in "Engineering and Technology" and "Architecture. The admissions shall be carried out as per these Rules and its amendment from time to time.

3. DEFINITIONS

- "Act" means the Maharashtra Unaided Private Professional Educational Institutions (Regulation of Admissions and Fees) Act, 2015 (Mah. Act XXVIII of 2015);
- "All India Seats" means seats available to an eligible Indian National Candidate;
- "Application Form" means prescribed form filled up online by the Candidate for admission;
- "Competent Authority" means the Registrar, MGMU Aurangabad.

- (e) “Program” means the postgraduate technical courses in “Engineering and Technology” and “Architecture.
- (f) “Eligible Candidates” means the candidates who are eligible for different professional courses as notified by the MGMU, Aurangabad.
- (g) “Bachelor of Engineering” and/or “Bachelor of Technology” means A degree awarded by AICTE approved University.
- (h) “Bachelor of Architecture” means A degree awarded by council of Architecture approved University.
- (i) “GATE” means the Graduate Aptitude Test which is conducted by the IIT.
- (j) “Qualifying Examination” means examinations on the basis of which a candidate becomes eligible for admission or its equivalent examination;
- (k) “COA” means Council of Architecture;

4. SCHEME OF EXAMINATION

4.1 MGMU CET 2020 (M.Tech.)

(a) **Date of Examination:** The examination will be conducted on 09th January, 2021.

(b) **Pattern and Weightage of Examination:**

Sections	Weightage in %	No. of questions	Max. Marks	Total Marks
General Aptitude	15%	9	9	9
Engineering Mathematics	15%	9	9	9
Branch Specific: 1. Computer Science & Engineering (Digital Transformation) 2. Mechanical Engineering 3. Electrical Power Systems 4. Structural Engineering 5. VLSI and Embedded Systems	70%	42	42	42
Total	100%	60	60	60

(c) **Language of Question Paper:** The medium of examination shall be English.

4.2 MGMU CET 2020 (MCA)

The Online CET would be comprised of four sections viz Mathematics and Statistics, Logical/ Abstract reasoning, English comprehension and verbal ability and Computer Concepts of total 100 marks with composite time of 60 minutes duration.

Syllabus:

Mathematics and Statistics:

The question paper will cover the following topics of high school mathematics (up to the 12th Standard)

- Algebra: Fundamental operations in Algebra, Expansion, factorization, Quadratic equations, indices, logarithms, arithmetic, geometric and harmonic progressions, binomial theorem, permutations and combinations.
- Co-ordinate Geometry: Rectangular Cartesian co-ordinates, equations of a line, mid-point, intersections etc., equations of a circle, distance formulae, pair of straight lines, parabola, ellipse and hyperbola, simple geometric transformations such as translation, rotation, scaling.
- Differential Equations: Differential equations of first order and their solutions, linear differential equations with constant coefficients, homogenous linear differential equations.
- Trigonometry: Simple identities, trigonometric equations, properties of triangles, solution of triangles, height and distance, inverse function.
- Probability and Statistics: Basic concepts of probability theory, Averages, Dependent and independent events, frequency distributions, and measures of dispersions, skewness and kurtosis, random variable and distribution functions, mathematical expectations, Binomial, Poisson, normal distributions, curve fitting, and principle of least squares, correlation and regression.
- Arithmetic: Ratios and proportions, problems on time-work, distance-speed, percentage, etc.
- Basic Set Theory and Functions: Set, relations and mappings.
- Mensuration: areas, triangles and quadrilaterals, area and circumference of circles, volumes and surface areas of simple solids such as cubes, spheres, cylinders and cones.

Logical/ Abstract Reasoning:

- This shall include the questions to measures how quickly and logically you can think. This section will cover logical situations and questions based on the facts given in the passage. This test shall check the problem-solving capability of the candidate.
- English comprehension and verbal ability:
- Questions in this section will be designed to test the candidate's general understanding of the English language. There will be questions on the topics such as Basic English grammar,
- Vocabulary, comprehension, synonyms antonyms, sentence correction, word & phrases, jumbled paragraph.

Computer Concepts:

- Computer Basics: Organization of a computer, Central Processing Unit (CPU), Structure of instructions in CPU, input / output devices, computer memory, memory organization, back-up devices.
- Data Representation: Representation of characters, integers, and fractions,

binary and hexadecimal representations, Binary Arithmetic: Addition, subtraction, division, multiplication, signed arithmetic and two's complement arithmetic, floating point representation of numbers, normalized floating point representation, Boolean algebra, truth tables, Venn diagrams.

- Computer Architecture: Block structure of computers, communication between processor and I / O devices, interrupts.
- Computer Language: Assembly language and high-level language, Computer Programming in C.
- Operating System basics

Marking Scheme and duration

Sr. No.	Section	No. of Questions	Marks per Question	Maximum Marks	Total Marks
1.	Mathematics & Statistics	15	2	30	100
2.	Logical/ Abstract Reasoning	15	2	30	
3.	English comprehension and verbal ability	10	2	20	
4.	Computer Concepts	10	2	20	
The test will comprise of multiple-choice objective type questions (Four Options)					
Medium of CE: English					
There is no Negative Marking					

4.3 MGMU CET 2020 (M.Arch)

The Online test will have 50 Questions based on Topics given below.

S.No	Topics	No of questions	marks per Question	Max. Marks	Total Marks
1	Building Construction Technology and Materials: Building systems, Building Science and services, Concept of green building, Construction materials.	10	2 Marks	20 Marks	100 Marks
2	Environment: Concept, Ecology and landscape design, Environment laws and regulations, Environment design strategies w.r.t site.	10	2 Marks	20 Marks	

3	Architecture History and Humanities: Awareness of Art and culture and architectural theory, major architecture movements in the world and in India.	10	2 Marks	20 Marks
4	Human Settlement planning: Urbanization, Urbanism, Urban and rural system, History of Settlement, planning theory and legislation.	10	2 Marks	20 Marks
5	Current Architecture Practice: Awareness of National building code. Town planning laws and development control regulation, knowledge of Regulatory and professional bodies on architecture.	10	2 Marks	20 Marks
Test Duration 60 minutes , Medium of CET: English , Mode of Examination - Online				

5. ELIGIBILITY FOR ADMISSION TO FIRST YEAR POST GRADUATE DEGREE IN ENGINEERING/ TECHNOLOGY

5.1 Eligibility Criteria: Program: Master of Technology (M.Tech.)

a. All the candidates passed / appearing at the qualifying examination i.e. B.E./B.Tech. examination or its equivalent examination and having Indian Nationality are eligible for appearing for MGMU CET 2020 (M.Tech).

- **Maharashtra State Candidate:**

- The Candidate should be an Indian National and having domicile of Maharashtra state and/or born in Maharashtra state.
- Passed B.E./B.Tech. examination or its equivalent examination from Maharashtra state.

- **All India Candidates –**

- The Candidate should be an Indian National.
- Passed B.E./B.Tech. examination or its equivalent examination.

Important Instructions to the MGMU CET 2020 (M.Tech.) candidates.

- The Online Question Paper will contain Multiple Choice Questions (MCQs) with Four options (answers) for each question.
- Each question will have Four alternatives (answers) out of which only one alternative/answer will be the correct.
- There is no Negative Marking.
- The Questions will be displayed on the computer screen one at a time.

- Candidates are advised not to spend too much time on any particular question.
- Questions will be available in English language only.

5.2 Eligibility Criteria: Program: Master of Computer Applications (MCA)

The candidate should fulfill the following eligibility criteria:

- The candidate should be an Indian National;
- Passed minimum three year duration Bachelor's Degree awarded by University recognized by University Grants Commission or Association of Indian Universities in any discipline with at least 50% marks in aggregate or equivalent (at least 45% in case of candidates of backward class categories and Persons with Disability belonging to Maharashtra State only);
- Studied Mathematics as one of the subjects at (10+2) level or at Graduate level examination; (Candidates appearing for final year of qualifying examination are also eligible to appear for MGMU CET 2020)

5.3 Eligibility Criteria: Program: Masters in Architecture (M.Arch)

The candidate should fulfill the following eligibility criteria:

- The candidate should be an Indian National
- The candidate with a minimum of 50 % marks in aggregate (at least 45% marks in case of Candidates of Backward class categories and persons with disability belonging to Maharashtra State only) in a Bachelor of Architecture degree course or equivalent courses recognized by the Council of Architecture.
- Candidates appearing for final year of qualifying examination are also eligible to appear for MGMU CET-2020 (M.Arch).

6. ONLINE APPLICATION FORM

Application Form for MGMU CET 2020 (M.Tech.), MGMU MCA CET 2020 (MCA) and MGMU CET 2020 (M.Arch.) will be filled through Online Mode only. For submission of online application form the candidates should login at mgmu.ac.in or jnec.org website.

(a) The Online Application Submission is four step process:

1. Applicant needs to fill Application Form on www.mgmu.ac.in/admissions/jnec, <https://jnec.org/>
2. Applicant needs to register by paying application fees of Rs.1000/- through his/her login.
3. Applicant needs to pay MGMU CET exam fees of Rs. 1000/- (payment link will be provided to the registered email id).
4. Applicant will get MGMU CET exam link to his/her login.

Fees once paid will not be refundable under any circumstances. For all Category Candidates from Maharashtra State, Outside Maharashtra State (OMS), J & K Migrant candidates the application fees for MGMU CET is RS. 1000/-.
