



Postgraduate Admission Information Brochure 2026-27

Malaviya Admission Counseling (MAC) 2026



MADAN MOHAN MALAVIYA UNIVERSITY OF TECHNOLOGY

(Formerly Madan Mohan Malaviya Engineering College, Gorakhpur, Estd. 1962)

(U.P. Govt. Technical University)



Ranking and Recognitions



NIRF Ranking 2025

- Overall Engineering Category : 60th Rank
- Overall University Category : 68th Rank
- State Public University : 23rd Rank



NAAC A

- Grade : A
- CGPA : 3.10
- Validity : 13 June, 2027



QS Ranking

- South Asia : 429
- Asia Ranking : 1301+



IIRF Ranking- 2025 (BBA)

- National Level : 19th
- State Level : 1st

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Vice Chancellor *Message*

I am delighted to welcome you to the postgraduate programs at our University for the academic session 2026–2027. Madan Mohan Malaviya University of Technology, Gorakhpur (erstwhile Madan Mohan Malaviya Engineering College, Gorakhpur) has a 64-year legacy of excellence in education and research. The University has been accredited with an 'A' Grade by the National Assessment and Accreditation Council (NAAC). Since its inception, the University has been committed to delivering quality education, with great emphasis on a holistic, relevant, and professional approach that is aligned with industry requirements. The comprehensive curricula of our University have been designed to address emerging challenges in the fields of Science, Technology, Engineering, and Mathematics (STEM).

The University currently offers M.Tech. programs in thirteen specializations, M.Pharm. programs in two specializations, M.Sc. programs in three specializations, as well as MCA and MBA programs. All postgraduate programs have been designed to promote emerging domains of knowledge alongside traditional disciplines and courses. The University encourages creativity, innovation, and entrepreneurship among students and faculty. It has signed several MoUs with national and international academic and research institutions to promote collaborative research and academic activities. The University has also made significant contributions at both national and international levels through high-quality research.

In addition to our strong academic programs, we offer a vibrant campus life that enriches students through a wide range of extracurricular and co-curricular activities facilitated by various clubs and societies. The University has recently undertaken several significant initiatives to establish new research facilities and strengthen infrastructure for the promotion of research, innovation, and entrepreneurship.

I am confident that a bright future awaits you, and becoming a part of the MMMUT family will help shape your academic and professional journey through knowledge, skills, friendships, and lifelong associations. You will acquire valuable life skills that will guide you throughout your personal and professional life. I hope this admission brochure provides all the necessary information regarding admission procedures and other academic activities. Our community of faculty, staff, and students looks forward to welcoming you to Madan Mohan Malaviya University of Technology, Gorakhpur.

(Prof. Anupama Kaushik Sharma)

I ABOUT THE UNIVERSITY

1.1 MADAN MOHAN MALAVIYA UNIVERSITY OF TECHNOLOGY, GORAKHPUR

Madan Mohan Malaviya University of Technology (MMMUT), Gorakhpur, was established in the year 2013 by the Government of Uttar Pradesh in the form of a non-affiliating, teaching, and research University after reconstituting the erstwhile Madan Mohan Malaviya Engineering College, Gorakhpur which was established in 1962. The University has a lush green campus that spreads over a vast area of 338 acres. The University is located on the Gorakhpur-Deoria Road about 9 km away from Gorakhpur Railway Station. Gorakhpur airport is approx. 5 km away from the University. Madan Mohan Malaviya University of Technology (MMMUT), Gorakhpur has been awarded an “A” grade by the National Assessment and Accreditation Council (NAAC). It has become the first state university to get this rank.

University has more than 5500 students in eight B.Tech. programs, i.e., Civil Engineering, Electrical Engineering, Mechanical Engineering, Electronics & Communication Engineering, Electronics & Communication Engineering (IoT), Computer Science & Engineering, Chemical Engineering, and Information Technology, along with B.Pharm., B.B.A, M.B.A., M.C.A. and M.Sc. in Physics, Mathematics, and Chemistry, M.Pharm. The university is currently offering M.Tech. in 13 disciplines and full-time/part-time Ph.D. programs in all departments. The university has distinguished alumni serving in various key positions in India and abroad.

VISION

To facilitate and promote studies, research, technology incubation, product innovation, and extension work in Science, Technology, and Management Education, and also to achieve excellence in higher technical education.

MISSION

- ⌘ To serve society as a centre of higher learning, providing long-term societal benefits through transmitting advanced knowledge, discovering new knowledge and functioning as an active working repository of organized knowledge.
- ⌘ To take a leadership role by providing need-based programs in engineering and technology, applied sciences, management, humanities, architecture, pharmacy, retail and fashion design, mass-communication, agriculture, and other employable Programs in emerging areas.
- ⌘ To promote compassionate care of the highest quality that translates new knowledge into meaningful improvements in technological outcomes through interdisciplinary collaboration, fiscal responsibility, support of diversity, a focus on quality, and a culture of professionalism.
- ⌘ To establish value-creating networks and foster relationships with other leading institutes of higher learning and research, alumni, and industries in order to provide significant contributions to national and international development.
- ⌘ To create an intellectually stimulating Infrastructure and conducive environment for technology research, scholarship, creativity, innovation, entrepreneurship, and professional activity for service to the community and economy.

1.2 POSTGRADUATE PROGRAMMES OFFERED BY THE UNIVERSITY

The University offers M.Tech, M.Pharm, MBA, M.Sc., MCA, and Ph.D. programmes. The University has a total 12 departments offering various programmes as per the following details:



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Name of the Department	Name of the Programmes Offered
Civil Engineering (CE)	■ M.Tech. (Environmental Engineering) ■ M.Tech. (Seismic Design & Earthquake Engineering) ■ M.Tech. (Structural Engineering) ■ Ph.D.
Electrical Engineering (EE)	■ M.Tech. (Power Electronics & Drives) ■ M.Tech. (Control & Instrumentation) ■ Ph.D.
Mechanical Engineering (ME)	■ M.Tech. (Energy Technology & Management) ■ M.Tech. (CAD/CAM Robotics) ■ Ph.D.
Electronics & Communication Engineering (ECE)	■ M.Tech. (VLSI) ■ M.Tech. (Communication Systems) ■ M. Tech (Avionics) ■ Ph.D.
Computer Science & Engineering (CSE)	■ M.Tech. (Computer Science & Engineering) ■ Ph.D.
Chemical Engineering (CH)	■ M.Tech (Chemical Engineering) ■ Ph.D.
Information Technology & Computer Application (ITCA)	■ M.Tech. (Information Technology) ■ MCA ■ Ph.D.
Pharmaceutical Science and Technology	■ M.Pharm. (Pharmaceutics) ■ M.Pharm. (Pharmaceutical Chemistry) ■ Ph.D.
Management Studies (MS)	■ MBA ■ Ph.D.
Physics & Material Science (PMS)	■ M.Sc. (Physics) ■ Ph.D.
Chemistry & Environmental Science (CES)	■ M.Sc. (Chemistry) ■ Ph.D.
Mathematics & Scientific Computing (MSC)	■ M.Sc. (Mathematics) ■ Ph.D.

1.3 HIGHLIGHTS

- ⌘ NAAC "A" accredited university
- ⌘ University ranked 60th in overall Engineering Category of NIRF-2025.
- ⌘ University ranked 68th in overall University Category of NIRF-2025.

- ⌘ University ranked 23rd in overall state public University Category of NIRF-2025.
- ⌘ University ranked 83rd in management Category of NIRF-2025.
- ⌘ Emphasis on multi disciplinary approaches to learning and research.
- ⌘ MoUs with academic and research institutions in India and abroad.
- ⌘ Alumni in leadership positions in industry and academia
- ⌘ Financial assistance for research work
- ⌘ Well-established Training and Placement Cell
- ⌘ Availability of a large number of e-journals and e-books
- ⌘ Well established incubation cell to support innovation, creativity and intellectual excellence of students

2 ADMISSION TO PG PROGRAMMES

2.1 MODE OF ADMISSION AND ELIGIBILITY CRITERIA & SEAT

The University offers PG Programmes under regular category. The Admissions in PG Programs for sessions 2026-27 will be made as follows :

Department	Programme Offered	In take	Eligibility	CUET (PG)-2026 Test Paper code
Civil Engineering	M.Tech. (Structural Engineering)	18	B.E./B.Tech. or equivalent Engineering degree in Civil/Structural/ Construction Technology/Construction Technology and Management with at least 50% marks (45% marks in case of candidates belonging to SC/ST/PwD). The decision of the University shall be final to decide equivalency of branches/degree.	MTQP02
	M.Tech. (Seismic Design and Earthquake Engineering)	18	B.E./B.Tech. or equivalent Engineering degree in Civil/Structural/ Construction Technology/Construction Technology and Management with at least 50% marks (45% marks in case of candidates belonging to SC/ST/PwD). The decision of the University shall be final to decide equivalency of branches/degree.	MTQP02
	M.Tech (Environmental Engineering)	18	B.E./B.Tech. or equivalent Engineering degree in Civil/ Environmental/ Chemical/ Structural/ Agricultural/ Construction Technology/ Construction Technology and Management with at least 50% marks (45% marks in case of candidates belonging to SC/ST). The decision of the University shall be final to decide equivalency of branches/ degree	MTQP02
Mechanical Engineering	M.Tech. (CAD/CAM Robotics)	18	B.E./B.Tech or equivalent Engineering degree in Mechanical /Production/ Mechatronics/Industrial/Energy/Chemical/Mining/Mineral/Environment/ Metallurgy/Mining Machinery Engineering/Automobile/ Aerospace Engineering/Space Engineering and Rocketry/Electrical & Electronics/ Electronics & Communication/Electronics & Instrumentation/ Instrumentation & Control with at least 50% marks (45% marks in case of candidates belonging to SC/ST/PwD). The decision of the University shall be final to decide the equivalency of branches/degrees.	MTQP07



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	M.Tech. (Energy Technology and Management)	18	B.E./B.Tech. or equivalent Engineering degree in Mechanical / Production / Industrial/Energy/Chemical/Mining/Mineral/Environment/Metallurgy/ Mining Machinery Engineering/Automobile/Aerospace Engineering /Space Engineering and Rocketry with at least 50% marks (45% marks in case of candidates belonging to SC/ST/PwD). The decision of the University shall be final to decide the equivalency of branches/degrees.	MTQP07
Computer Science & Engineering	M.Tech. Computer Science and Engineering (specialization with AI/Cyber Forensics/ Spatial Information Technology)	30	B.E./B.Tech. or equivalent Engineering degree in Computer Science/ Computer Sc. and Engineering/Computer Engineering/Information Technology/Software Engineering and other relevant branches or M.Sc degree in Computer Science/IT or MCA with with at least 50% marks (45% marks in case of candidates belonging to SC/ST/PwD). The decision of the University shall be final to decide equivalency of branches/degree.	MTQP04/ SCQP09
Information Technology & Computer Application	M.Tech. (Information Technology)	18	B.E./B.Tech. or equivalent Engineering degree in Information Technology/ Computer Science/Computer Sc. and Engineering/Computer Engineering/ Software Engineering and other relevant branches or M.Sc degree in Computer Science/IT or MCA with with at least 50% marks (45% marks in case of candidates belonging to SC/ST/PwD). The decision of the University shall be final to decide equivalency of branches/degree.	MTQP04/ SCQP09
	MCA (Master of Computer Applications)	75	The seats in MCA will be filled with candidates who have passed the qualifying examination from any institution in the U.P. or whose parents are domiciled in the U.P. subject to the eligibility conditions in this section. If the candidate has passed the qualifying examination from outside of the U.P., he/she must produce a domicile certificate of his/her parents (father/mother only) at the time of document verification. If the candidate has passed the qualifying examination from outside of the U.P. and his/her parents are not domicile of the U.P. will be considered only if seats are vacant. The eligibility criteria for admission in the MCA programme are as follows:The candidate should have passed BCA/bachelor's degree in computer science engineering or equivalent degree OR passed B.Sc./B.Com./B.A. with minimum passing mark in Mathematics at 10+2 Level or at Graduation Level AND obtained a minimum of 50% marks (45% in the case of candidates belonging to the SC/ST category) in the qualifying examination. Admissions in the MCA programme will be completed in 2 phases. In the first phase applicants with CUET(PG)-2026 will be considered.	SCQP09
Electrical Engineering	M.Tech. (Power Electronics and Drives)	18	B.E./B.Tech. or equivalent Engineering degree in either Electrical Engineering (EE) or Electrical and Electronics Engineering (EN) with at least 50% marks (45% marks in case of candidates belonging to SC/ST/PwD). The decision of the University shall be final to decide equivalency of branches/degree.	MTQP10
	M.Tech. (Control and Instrumentation)	18	B.E./B.Tech. or equivalent Engineering degree in Engineering/Technology in Electrical Engineering, Electrical and Electronics Engineering, Instrumentation and Control Engineering, and Instrumentation Engineering with at least 50% marks (45% marks in case of candidates belonging to SC/ST/PwD). The decision of the University shall be final to decide equivalency of branches/degree.	MTQP10

Electronics & Communication Engineering	M. Tech (VLSI)	18	B.E./B.Tech. /AMIE// or/ equivalent in Electronics & Communication Engineering (ECE) Electronics & Telecommunication Engineering (ET), Instrumentation/ Engineering/ (IN), Electrical & Electronics Engineering (EEE), Electronics & Instrumentation (EI), Electrical/ Engineering/ (EE), Biomedical Engineering (BM), Computer/ Science/ and/ Engineering (CSE), Information/ Technology/ (IT), Engineering/ Physics/ (EP), Energy/ Engineering/ (EN), Aerospace Engineering/Space Engineering and Rocketry. (ii)/ M.Sc./ or/ equivalent/ in/ Electronics// Electronic/ Sciences/ (EL) with at least 50% marks (45% marks in case of candidates belonging to SC/ST). The decision of the University shall be final to decide equivalency of branches/ degree.	MTQP05
	M.Tech (Communication System)	18	B.E./B.Tech./AMIE or equivalent in Electronics & Communication Engineering (ECE) Electronics & Telecommunication Engineering (ET), Instrumentation/ Engineering/ (IN), Electrical & Electronics Engineering (EEE), Electronics & Instrumentation (EI), Electrical/ Engineering/ (EE), Biomedical Engineering (BM), Computer/ Science/ and/ Engineering (CSE), Information/ Technology/ (IT), Engineering/ Physics/ (EP), Energy/ Engineering/ (EN), Aerospace Engineering/Space Engineering and Rocketry. (ii)/ M.Sc./ or/ equivalent/ in/ Electronics// Electronic/ Sciences/ (EL) with at least 50% marks (45% marks in case of candidates belonging to SC/ST). The decision of the University shall be final to decide equivalency of branches/ degree.	MTQP05
	M. Tech (Avionics) (Specialization in: Satellite Avionics, Space Robotics, UAVs)	18	B.E. /B.Tech. /AMIE // or/ equivalent in Electronics & Communication Engineering (ECE) Electronics & Telecommunication Engineering (ET), Instrumentation/ Engineering/ (IN), Electrical & Electronics Engineering (EEE), Electronics & Instrumentation (EI), Electrical/ Engineering/ (EE), Biomedical Engineering (BM), Computer/ Science/ and/ Engineering (CSE), Information/ Technology/ (IT), Engineering/ Physics/ (EP), Energy/ Engineering/ (EN), Mechanical /Automobile / Aerospace Engineering/Space Engineering and Rocketry. (ii)/ M.Sc./ or/ equivalent/ in/ Electronics// Electronic/ Sciences/ (EL) with at least 50% marks (45% marks in case of candidates belonging to SC/ST). The decision of the University shall be final to decide equivalency of branches/ degree.	MTQP05/ MTQP07
Chemical Engineering	M.Tech. (Chemical Engineering)	18	B.E./B.Tech. or equivalent. Engineering degree in Chemical/ Petrochemical/ Environmental/Leather/Paint/Plastic/Material/Metallurgy/Production/Civil/ Paper/Biochemical/ Biotechnology/surface coating etc. with at least 50% marks (45% marks in case of candidates belonging to SC/ST/ PwD) OR M.Sc in Chemistry, Environmental, Material and Physics with at least 50% marks (45% marks in case of candidates belonging to SC/ST/PwD) with B.Sc in appropriate branch of Science.	MTQP01/ SCQP08/ SCQP11/ SCQP18/ SCQP24
Management Studies	MBA	75	The candidate should have passed the recognized bachelor's degree of a minimum of three years duration from any University of India as recognized by UGC with at least 50% marks (45% in case of candidates belonging to SC/ST category) in the qualifying examination. Valid scores in CMAT-2026. Admissions to the MBA program will be completed in 3 phases. In the first phase applicants with CMAT-2026, and CUET (PG) 2026 will be considered. If seats remain vacant, the University may conduct a University Entrance Examination, i.e., the Malaviya Entrance Test for session 2026-27. Merit list will be prepared based on the score card in the Entrance Examination, and the preference will be given in sequence to CMAT-2026, CUET (PG) 2026 then Malaviya Entrance Test-2026 (if conducted). CMAT-2026 score will be considered valid only if a candidate score total NTA score more than (50 for General Candidates/ 40 for OBS/EWS candidates and 30 for SC/ST/PwD candidates)	COQP12



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Physics and Material Science	M.Sc. Physics	30	The candidate should have passed the recognized Bachelor's degree in science stream of minimum three years duration from any University of India as recognized by UGC. The candidates must have passed qualifying examination with Physics as a subject for all the three years and with mathematics as another subject for at least two years and obtained minimum 50% marks (45% in case of candidates belonging to SC/ST/PwD category) in the qualifying examination.	SCQP24
Chemistry and Environmental Science	M.Sc. Chemistry	30	The candidate should have passed the recognized Bachelor's degree in science stream of minimum three years duration from any University of India as recognized by UGC. The candidates must have passed qualifying examination with Chemistry as a subject for all the three years and obtained minimum 50% marks (45% in case of candidates belonging to SC/ST/PwD category) in the qualifying examination.	SCQP08
Mathematics and Scientific Computing	M. Sc. Mathematics	30	The candidate should have passed the recognized Bachelor's degree in science stream of minimum three years duration from any University of India as recognized by UGC. The candidates must have passed qualifying examination with Mathematics as a subject for all the three years and obtained minimum 50% marks (45% in case of candidates belonging to SC/ST/PwD category) in the qualifying examination.	SCQP19
Pharmaceutical Science and Technology	M. Pharm. (Pharmaceutics)	15	The admission is open to Indian Nationals who have passed/appeared in qualifying examination fulfilling the eligibility requirement given below- a) B. Pharm. degree of an Indian University established by law in India from an institution approved by Pharmacy Council of India and has scored not less than 55% of the maximum marks (aggregate of four years of B. Pharm.), for SC/ST candidates the prescribed percentage of marks will be 50% of the maximum marks (aggregate of four years of B. Pharm.). b) Every student, selected for admission to postgraduate pharmacy program in any of the pharmacy specialization should have obtained Registration with the State Pharmacy Council or should obtain the same within one month from the date of his/her admission, failing which the admission of the candidate shall be cancelled. Applicants must fulfill any one of the following criteria at the time of admission (preference order will be as listed): 1. GPAT 2026 with valid score card 2. GATE with valid score card 3. Malaviya Entrance Test (MET-2026)	SCQP23
	M. Pharm. (Pharmaceutical Chemistry)	15		

*MET-2026 : If seats remain vacant, the University may conduct a Malaviya Entrance Test (MET)-2026.

2.2 TENTATIVE SEAT MATRIX FOR M.TECH AND M.PHARM PROGRAMMES

Branch		Intake	GN	EWS	OBC	SC	ST
CED	ENV	18	7	2	5	3	1
	STR	18	8	1	5	4	0
	SDEE	18	7	2	5	4	0
EED	PED	18	8	1	5	4	0
	C&I	18	8	2	5	3	0
ECED	CS	18	7	2	5	4	0
	VLSI	18	8	1	5	4	0
	Avionics (Specialization in: Satellite Avionics, Space Robotics, UAV's)	18	7	1	5	4	1

MED	CAD/CAM Robotics	18	7	2	4	4	1
	ETM	18	7	2	5	4	0
ITCA	IT	18	7	2	5	4	0
CSED	CSE	30	12	3	8	6	1
CHE	CHE	18	7	2	5	3	1
Ph.STD	M.Pharm (Pharmacutics)	15	6	2	4	3	0
	M.Pharm (Pharmaceutical Chemistry)	15	6	2	4	3	0
Total		276	112	27	75	57	5

Tentative Seat Matrix in MBA, MCA & M.Sc. Programmes

Branch	Intake	GN	GNOP	GNGL	GNAF	GNFF	GNHC	EWS	EWOP	EWGL	EWAF	EWFF	EWHC	OBC	BCOP	BCGL	BCAF	BCFF	BCHC	SC	SCOP	SCGL	SCAF	SCFF	SCHC	ST	STOP	STGL	STAF	STFF	STHC
MBA	75	32	24	6	1	0	1	7	6	1	0	0	0	20	14	4	1	0	1	15	12	3	0	0	0	1	1	0	0	0	0
MCA	75	32	24	6	1	0	1	7	6	1	0	0	0	20	14	4	1	0	1	15	12	3	0	0	0	1	1	0	0	0	0
Phy	30	13	11	2	0	0	0	3	3	0	0	0	0	8	7	1	0	0	0	6	5	1	0	0	0	0	0	0	0	0	0
Math	30	13	11	2	0	0	0	3	3	0	0	0	0	8	7	1	0	0	0	6	5	1	0	0	0	0	0	0	0	0	0
Chy	30	13	11	2	0	0	0	3	3	0	0	0	0	8	7	1	0	0	0	6	5	1	0	0	0	0	0	0	0	0	0

2.3 IMPORTANT INSTRUCTIONS

- 2.3.1 The candidate must himself/herself ensure his/her eligibility to appear in the respective entrance test of a particular Program. If a candidate who is not eligible to appear in the examination does so, he/she will not have any claim whatsoever for admission to any program through the entrance test.
- 2.3.2 Candidates who are yet to appear in the qualifying examination or have appeared but whose results are awaited are also eligible to appear in the entrance test. However, the candidates in respect of whom the result of the qualifying examination has not been declared by the date of document verification due to any reason whatsoever, shall not be eligible for admission under any circumstances.
- 2.3.3 For admission to M. Tech. program, the candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are NOT domicile of U.P. are also eligible for admission to PG Programs offered at the university are only under the General (OPEN) category.
- 2.3.4 Accepting admission to the University implies acceptance by the candidate and his/her parents or guardians of all the provisions given in this admission brochure and the University rules as applicable. Any change in the rules, regulations, fees, special conditions, etc., of the University shall mutatis mutandis apply to the admitted candidate.
- 2.3.5 Candidates seeking advantage of reserved categories must indicate the same but not enclose any supporting certificates with the application form. The advantage of horizontal reservation is not applicable for admission to M.Tech & M.Pharm Programmes. The certificates will have to be produced in original at the time of document verification, along with one attested copy of each one of them. The proforma of certificates is given at the end of this admission brochure in Appendix A. These are subject to change even up to the starting date of counseling as per orders of Govt. of Uttar Pradesh/University. Candidates are essentially required to produce the respective certificates in support of their claim for reservation in the prescribed format only. Unless approved by the University in the proforma, any deviation will deprive the



candidate of the benefit being claimed. Note that Certificate 2 for OBC candidates will be valid only when it is issued on or after 01.04.2026 (mandatory due to conditions of creamy layer for OBC).

- 2.3.6 The result of GATE/GPAT/CMAT/CUET (PG) 2026/MET-2026 for the respective programmes as declared by the conducting IIT/National Testing Agency (NTA)/University shall be final. However, the candidate seeking admission to any programme can challenge the evaluation of his/her answers per the rules prescribed by the conducting IIT/National Testing Agency (NTA)/University.
- 2.3.7 If any document/declaration submitted by the candidate is found to be false at any stage, his/her candidature for admission shall be canceled, and he/she will be liable for prosecution under the law. In case of any legal dispute regarding admission, the jurisdiction will be limited to Gorakhpur courts only. If any Board awards only letter grades without providing an equivalent percentage of marks on the grade sheet, the candidate should obtain a certificate from the Board specifying equivalent marks and submit it at the time of document verification. If the candidate does not provide such a certificate, the decision of the University Admission Cell (UAC) regarding his/her eligibility shall be final and binding.
- 2.3.8 For admission in any program, the admit card, result, and all related notifications in connection with CUET (PG) shall be made available on the official websites of NTA <https://pgcuetsamarth.ac.in>. Formatters related to admissions as well as counselling of all Programs, the candidates are required to visit the University's official website www.mmmut.ac.in, regularly. It is the responsibility of the candidate to visit these websites and be informed about all information relevant to him/her, failing which the University will not be responsible for any loss due to lack of communication.
- 2.3.9 For any queries regarding admission, the contact numbers 8765783798 and 9235500507 may be used from 10.00 a.m. to 5.00 p.m. only on all days except gazetted holidays, Sundays, and from 10.00 a.m. to 1.00 p.m. on Saturdays. For the queries through e-mail (admission2026@mmmut.ac.in), the reply will be made after 24 hours.
- 2.3.10 The date of reporting for the newly admitted students shall be notified on the university website and shall also be informed to the candidate in the admission offer letter during the counselling.
- 2.3.11 There is no management quota in the university. Admission is made only through counseling as per the procedure given in this brochure.

2.4 REGISTRATION AND COUNSELLING GUIDELINES FOR PG PROGRAMMES

Candidates should apply online for admission to the PG programs as follows.

Step 1. Instructions for filling Online Applications Form

Admission mode and online registration for counselling of various PG courses for session 2026-27.

Courses	Mode of Admission	Registration details for online counselling
M.Tech.	GATE/CUET (PG)-2026/MET-2026	Registration started from May 04, 2026 Link for registration: https://mmmutadm.samarth.edu.in
MCA / M.Sc. (Physics/Chemistry/Maths)	CUET (PG)-2026/MET-2026	
MBA	CMAT-2026/ CUET (PG)-2026/ MET-2026	
M.Pharm	GPAT/GATE/CUET (PG)-2026/ MET-2026	

MET-2026* Malaviya Entrance Test conducted by MMMUT

Preferences will be given as below to National Level Test (GATE/CMAT/GPAT/CUET (PG)-2026, qualified candidates.

- ⦿ First Preference will be given to GATE candidates, then CUET (PG)-2026 candidates and then MET-2026 candidates for M.Tech.
- ⦿ First Preference will be given to CUET (PG)-2026 candidates and then MET-2026 candidates for M. Sc.
- ⦿ First Preference will be given to CMAT-2026 candidates then CUET (PG)-2026 candidates and then MET-2026 candidates for MBA.
- ⦿ First Preference will be given to CUET (PG)-2026 candidates and then MET-2026 candidates for MCA.
- ⦿ For M Pharm admissions the preference will be in following order. GPAT-2026/GATE/CUET(PG)-2026/MET-2026.
- ⦿ The candidates are advised to keep visiting the university website regularly to get all updates related to admissions for session 2026-27.

**For any query related to Admission,
contact us at +91-9235500507, 8765783798**

or

Email: admission2026@mmmut.ac.in, admissionpg_2026@mmmut.ac.in

S.No.	Steps	Description of Steps		
1.	Open Applicant Registration Page	The candidate should fill-up the On-line application from any place through Internet by login on to mmmutadm.samarth.edu.in as per the detailed procedure given on the website.		
2.	New Registration	Candidates must create an account by clicking on New Registration Button and filling in the Registration form followed by verification of email. <i>Note: Please remember Email Id, OTP is sent to your Registered Email Id for verification purpose.</i>		
3.	Login	Candidate must enter Registered Email ID and Password to login to view the dashboard. Three Steps are there to complete your form:		
		STEP 1	STEP 2	STEP 3
		Complete Profile	Apply in Programme	Pay Registration Fee & Submit the Application form
4.	Profile	Candidate must create his profile (by clicking on Profile Button) carefully by filling all the required information. Please note that no modification shall be allowed after final submission of profile.		
5.	Select Programme	Candidate must carefully fill information required in following sections (by clicking on Select Programme Button):		
		⦿ Programme Selection	⦿ Personal Details	⦿ Academic Details
		⦿ Other Details	⦿ Uploads	⦿ Preview



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6.	Payments	Payments (Candidate must pay the registration fee (by clicking on Payment Gateway Button at bottom) to finally submit the application form and note down Order number/Transaction ID etc. mandatorily while making payment) after verifying all details by checking all confirmation check boxes as per filled information. - The candidate must deposit the application fee (Rs. 2500/-) as per the provisions made in online form. The application fee is non-refundable. - The online fee payment can be made through available online mode only. Additional bank charges will be applicable as per the rules of the respective bank depending upon the transaction mode used and which are to be paid by the candidates themselves. The confirmation page will be generated only after making the online fee payment successfully. - In case the fee amount has been debited from candidate's bank account and On-line application website does not acknowledge any fee payment then the candidate should make the payment again till it is not reflected on the University's On-line application website. Candidate should contact the concerned bank for the difficulty faced by him/her. University will not be responsible for any inconvenience caused due to this. No extra time shall be permissible for any such failure. - Applicants must download Print registration Slip (by clicking on Payments Button).
7.	Print Form	On completion of the online application form, the candidates are requested to take the print of the application form and preserve it for future use as they shall submit the duly signed copy of application form at the time of document verification. Please note that don't send the hard copy of Application form to University.

Step 2: Document Verification

All relevant and original documents will be verified offline at MMMUT Gorakhpur within the stipulated time. Candidates must keep one set of self-attested copies of the required documents. If the documents are found in order, the candidates can participate in the counselling process after document verification.

Step 3: Display of common general rank based on result

All applicants combined general rank will be generated based on the valid score for seat allotment in the respective disciplines.

Merit List Preparation

The Merit List will be prepared using scores obtained by candidates in the respective Test Papers. If there is a tie in the score obtained by two or more candidates, the order of merit for such candidates shall be decided in the following order.

- Rank is determined by age of the candidate.** If one candidate is older than another, the older candidate will have a higher rank than the younger candidate.
- Rank determination by Counselling Registration ID provided to candidates by MMMUT.** Candidates with a lesser Registration ID will have a higher rank than those with a higher Registration ID.

Step 4: Deposition of Confirmation Fee/Full Fee

In the case of seat allotment, the candidate is required to print out the provisional allotment letter from their login. There is no provision for sending the allotment letter individually to the candidate by post.

Candidates are required to pay the Confirmation fee/Full fee as notified by the University later online using the payment gateway services within the stipulated time mentioned in the allotment letter. Failing this, the provisional admission offered to the candidate will be cancelled, and the offered seat will be allotted to another candidate as per merit. The candidature of such candidate shall not be considered in any subsequent round of seat allotment except

spot counselling.

Step 5: Deposition of remaining University Fee

Candidates are required to deposit their remaining university fees (if any) after deducting the confirmation fee before registration/reporting for the academic session 2026-27 (25th July 2026).

Step 6: Physical Document Verification at the University

After provisional admission, all relevant and original documents will be verified at the time of physical reporting at the university, along with one set of self-attested copies of the required documents. Failing which, the provisional admission offered will be cancelled, and the University fee will be forfeited.

Step 7: Physical reporting to the University

Students are required to report the University on 27th July 2026 physically.

Note : If the candidate's personal data is found incorrect during the verification of certificates, either at the time of reporting or at any later stage, the allotment of seat/ admission is liable to be cancelled, and his/her university fee will be forfeited.

2.5 SCHOLARSHIPS/FINANCIAL ASSISTANCE

- I. Malaviya Chhatra Kalyan Nidhi (MCKN)
 - ⌘ Compensation in the event of an accident resulting in permanent/total/partial disability of the student.
 - ⌘ In case of their parent's demise, complete university fee remittance to the student to continue study. For more information, please visit http://www.mmmut.ac.in/pdf/Chhatra_Kalyan_Nidhi_Rules_FINAL_.pdf
- II. Students are liable to get the social scholarship the UP Govt provides as per candidature validity.
- III. GATE-qualified students with valid gate scores are liable for scholarships as per MHRD for M.Tech. Program only.
- IV. GPAT-qualified students will receive scholarship as per the regulations of Pharmacy Council of India, New Delhi.

2.6 FEE DETAILS

The fee structure for the academic session 2026-27 is as follows :

Fee Structure of M.Tech./M.Sc. Programme Admitted in Session 2026-27 for completing course in minimum stipulated time. (Amount in Rs.)

S. No.	Fee / Charges	1st Sem (2026-27) (Rs.)	2nd Sem (2026-27) (Rs.)	3rd Sem (2027-28) (Rs.)	4th Sem (2027-28) (Rs.)
A	Tuition Fees	10000	10000	10000	10000
B	Examination Charges	5000	5000	5000	5000
C	User Charges	1000	1000	1000	1000
D	Research Initiative Charges and Innovation	1250	1250	1250	1250
E	Bus Charges for Day Scholars	2500*	2500*	2500*	2500*
	Bus Charges for Hostellers	1250	1250	2500	2500
F	Caution Money	5000			
Total Charges for Day Scholars		24750	19750	19750	19750
Total Charges for Hostellers		23500	18500	18500	18500

Note: 1. Academic registration for 2nd and 4th semester will be done by depositing rupees 200/- only.
2. Hostel fees and mess advance will be deposited separately



Fee Structure of MBA Programme Admitted in Session 2026-27 for completing course in minimum stipulated time. (Amount in Rs.)

S. No.	Fee / Charges	I Semester 2026-2027	III Semester 2027-2028
A.	Tuition Fee	60,000	60,000
B.	Examination Charges		
1.	University Exam Charges	7000	7000
2.	Enrolment Charges (one time)	1000	—
3.	Degree & Marksheets Charges	500	500
4.	Exam. Contingencies Charges	750	750
5.	Insurance & other misc. expenditure on unspecified items	750	750
	TOTAL OF (B)	10,000	9,000
C.	User Charges		
1.	Registration Charges	500	500
2.	Recreation Charges	1500	1500
3.	Identity Card Charges	200	200
4.	Student Welfare Fund	500	500
5.	Medical Facility Charges	1000	1000
6.	Computing Infra Charges	7000	7000
7.	University Day Activity Charges	500	500
8.	Training & Placement Charges	1500	1500
9.	Industrial Exposure Charges	750	750
10.	Univ. Student Activity Council Charges and Magazines	2250	2250
11.	Library Facility Charges	2000	2000
12.	Laboratory Charges	1500	1500
13.	Student Aid & other misc. expenditure on unspecified items	300	300
14.	Bus Charges (Hostelers)	2500	2500
	Bus Charges (Day Scholar)	(5000)	(5000)
	TOTAL OF (C) FOR (HOSTELERS)	22,000	22,000
	TOTAL OF (C) (FOR (DAY SCHOLAR)	24,500	24,500
D.	University Development & Facilities Charges		
1.	Univ. Development Charges	2500	2500
2.	Univ. Electricity Charges	7500	7500
3.	Research Initiatives Charges & Innovation	1700	1700
4.	Fire & Water Charges	300	300
5.	Electricity Infra Charges	300	300
6.	Training Programmes Charges	400	400
7.	Awards & Automation Charges	800	800
8.	Skill Development Charges	500	500
9.	Conferences & Projects Charges	500	500
10.	Entrepreneurship Activities Charges	500	500
11.	Outsourcing Facilities & other misc. expenditure on unspecified items	500	500
12.	Economically Weaker Section Fund	5000	5000
	TOTAL OF (D)	20,500	20,500
E.	Other Charges		
1.	Caution Money (Library/W.S/Labs) one time	5000	
2.	Univ. Alumni Association Membership one time	1500	
3.	Information Brochure Charges one time	300	
4.	Contingent & Misc.	700	700
	TOTAL OF (E)	7500	700
Grand Total Amount for Hostellers of University		1,20,000	1,12,200
Grand Total Amount for Day Scholar of University		1,22,500	1,14,700
Note: 1. Academic registration for 2nd and 4th semester will be done by depositing rupees 200/- only. 2. Hostel fees and mess advance will be deposited separately			

**Fee Structure of MCA Programme Admitted in Session 2026-27
for completing course in minimum stipulated time. (Amount in Rs.)**

S. No.	Fee / Charges	I Semester 2026-2027	III Semester 2027-2028
A.	Tuition Fee	60,000	60,000
B.	Examination Charges		
1.	University Exam Charges	7000	7000
2.	Enrolment Charges (one time)	1000	—
3.	Degree & Marksheets Charges	500	500
4.	Exam. Contingencies Charges	750	750
5.	Insurance & other misc. expenditure on unspecified items	750	750
	TOTAL OF (B)	10,000	9,000
C.	User Charges		
1.	Registration Charges	500	500
2.	Recreation Charges	1500	1500
3.	Identity Card Charges	200	200
4.	Student Welfare Fund	500	500
5.	Medical Facility Charges	1000	1000
6.	Computing Infra Charges	7000	7000
7.	University Day Activity Charges	500	500
8.	Training & Placement Charges	1500	1500
9.	Industrial Exposure Charges	750	750
10.	Univ. Student Activity Council Charges and Magazines	2250	2250
11.	Library Facility Charges	2000	2000
12.	Laboratory Charges	1500	1500
13.	Student Aid & other misc. expenditure on unspecified items	300	300
14.	Bus Charges (Hostelers)	2500	2500
	Bus Charges (Day Scholar)	(5000)	(5000)
	TOTAL OF (C) FOR (HOSTELERS)	22,000	22,000
	TOTAL OF (C) (FOR (DAY SCHOLAR)	24,500	24,500
D.	University Development & Facilities Charges		
1.	Univ. Development Charges	2500	2500
2.	Univ. Electricity Charges	7500	7500
3.	Research Initiatives Charges & Innovation	1700	1700
4.	Fire & Water Charges	300	300
5.	Electricity Infra Charges	300	300
6.	Training Programmes Charges	400	400
7.	Awards & Automation Charges	800	800
8.	Skill Development Charges	500	500
9.	Conferences & Projects Charges	500	500
10.	Entrepreneurship Activities Charges	500	500
11.	Outsourcing Facilities & other misc. expenditure on unspecified items	500	500
12.	Economically Weaker Section Fund	5000	5000
	TOTAL OF (D)	20,500	20,500
E.	Other Charges		
1.	Caution Money (Library/W.S/Labs) one time	5000	
2.	Univ. Alumni Association Membership one time	1500	
3.	Information Brochure Charges one time	300	
4.	Contingent & Misc.	700	700
	TOTAL OF (E)	7500	700
	Grand Total Amount for Hostellers of University	1,20,000	1,12,200
	Grand Total Amount for Day Scholar of University	1,22,500	1,14,700

Note: 1. Academic registration for 2nd and 4th semester will be done by depositing rupees 200/- only.
2. Hostel fees and mess advance will be deposited separately



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**Fee Structure of M.Pharm Programme Admitted in Session 2026-27
for completing course in minimum stipulated time. (Amount in Rs.)**

S. No.	Fee / Charges	I Semester 2026-2027	III Semester 2027-2028
A.	Tuition Fee	75,000	75,000
B.	Examination Charges		
1.	University Exam Charges	7000	7000
2.	Enrolment Charges (one time)	1000	—
3.	Degree & Marksheets Charges	500	500
4.	Exam. Contingencies Charges	750	750
5.	Insurance & other misc. expenditure on unspecified items	750	750
	TOTAL OF (B)	10,000	9,000
C.	User Charges		
1.	Registration Charges	500	500
2.	Recreation Charges	1500	1500
3.	Identity Card Charges	200	—
4.	Student Welfare Fund	500	500
5.	Medical Facility Charges	1000	1000
6.	Computing Infra Charges	7000	7000
7.	University Day Activity Charges	500	500
8.	Training & Placement Charges	1500	1500
9.	Industrial Exposure Charges	750	750
10.	Univ. Student Activity Council Charges and Magazines	2250	2250
11.	Library Facility Charges	2000	2000
12.	Laboratory Charges	1500	1500
13.	Student Aid & other misc. expenditure on unspecified items	300	300
14.	Bus Charges (Hostelers)	2500	2500
	Bus Charges (Day Scholar)	(5000)	(5000)
	TOTAL OF (C) FOR (HOSTELERS)	22,000	21,800
	TOTAL OF (C) (FOR (DAY SCHOLAR)	24,500	24,300
D.	University Development & Facilities Charges		
1.	Univ. Development Charges	2500	2500
2.	Univ. Electricity Charges	7500	7500
3.	Research Initiatives Charges & Innovation	5000	5000
4.	Fire & Water Charges	300	300
5.	Electricity Infra Charges	300	300
6.	Training Programmes Charges	400	400
7.	Awards & Automation Charges	500	500
8.	Skill Development Charges	500	500
9.	Conferences & Projects Charges	500	500
10.	Entrepreneurship Activities Charges	500	500
11.	Outsourcing Facilities & other misc. expenditure on unspecified items	500	500
12.	Economically Weaker Section Fund	2000	2000
	TOTAL OF (D)	20,500	20,500
E.	Other Charges		
1.	Caution Money (Library/W.S/Labs) one time	5000	
2.	Univ. Alumni Association Membership one time	1500	
3.	Information Brochure Charges one time	300	
4.	Contingent & Misc.	700	700
	TOTAL OF (E)	7500	700
	Grand Total Amount for Hostellers of University	1,35,000	1,27,000
	Grand Total Amount for Day Scholar of University	1,37,500	1,29,500
Note: 1. Academic registration for 2nd and 4th semester will be done by depositing rupees 200/- only. 2. Hostel fees and mess advance will be deposited separately			

2.7 DETAILED GUIDELINE OF UNIVERSITY FEE REFUND POLICY FOR M.TECH. / M.SC. / M.B.A. / M.C.A. / M.PHARM.

(As per Guideline issued by AICTE/UGC for the Academic Session 2026-27)

If a candidate wants to withdraw his /her candidature after seat allotment and deposition of the acceptance/confirmation fee and or remaining fee, then fee will be refunded as per following University Fee Refund policy.

S.No.	Fee Refund Policy
1.	If a student withdrawing before the start of the classes for academics session 2026-27 (as per the academic calendar of university which will be notified separately on university website), the entire Fee collected from the student, after a deduction of the processing Fee of ₹6000/- (₹5000/- towards document verification Fee plus ₹1000/- towards processing fee).
2.	In case, if a student leaves after joining the Course and if the vacated seat will consequently filled by another student by the last date of admission (31/07/2026), the university shall refund the Fee collected after a deduction of ₹6000/(₹5000/- towards document verification Fee plus ₹1000/- towards processing fee) and hostel rent, wherever applicable.
3.	If a student leaves after the last date of admission (31/07/2026), the university shall ONLY refund the caution money. The last date for withdrawal of admission for the purpose of refund of fee shall be as per the last date (31/07/2026).

* Guidelines issued by UGC will be applicable only M.Sc. candidates.

Process for withdrawal/cancellation of admission and fee refund

1.	The candidate may apply for the cancellation of his/her admission and fee refund request through the candidate login of counselling portal.
2.	Once the cancellation request will be received, it will be processed, and refund amount will be credited as per the bank details (for the refund if any) submitted by the candidate at the time of registration.
3.	Any cancellation request sent through other than counselling portal will not be entertained.
4.	All the refund will be process after the last date of Admissions for session 2026-27.
5.	Please fill all the bank account related information VERY CAREFULLY for timely refund.
6.	If the refund gets stuck or goes to the wrong account due to the incorrect/ wrong information furnished by the candidate, then the University will not be responsible.

3 UNIVERSITY RESERVATION CRITERIA

Candidates seeking admission to different Programs are advised to read the reservation rules carefully before filling out their application form for counseling.

3.1 RESERVATION

a. Vertical Reservation (Category):

S.No.	Category	Percentage of Reservation
(a)	Scheduled Caste of U.P.	21%
(b)	Scheduled Tribe of U.P.	2%
(c)	Other Backward Classes of U.P.	27%
(d)	Economically Weaker Section of U.P.	10%

b. Horizontal Reservation (Sub-category in each vertical reservation category):

Horizontal Reservation is not applicable to the M.Tech & M.Pharm programmes.

S.No.	Sub-Category	Code	Maximum Percentage of Total Seats*
(a)	Dependents of Freedom Fighters from U.P.	UPFF	2%
(b)	Sons/Daughters of 'defence personnel of U.P. either retired (superannuated) or killed/disabled in action' or 'defence personnel posted in U.P.'	UPAF	5%
(c)	Divyangjan/differently abled person (earlier known as disabled of U.P.)	UPHC	5%
(d)	Girls of U.P.	UPGL	20%

* Subject to change as per latest instructions of Govt. of U.P. till the date of counselling.

- The candidates can claim only one type of horizontal reservation out of UPFF/UPAF/UPHC. However, the female candidates can also claim for any one of UPFF/UPAF/UPHC along with UPGL.
- The change of category/sub-category filled in Online submission shall not be entertained under any circumstances.
- Category/sub-category must be supported by the relevant certificates as per proforma given in Appendix-A to be produced at the time of document verification in counseling, failing which the candidates will not get the advantage of respective category/sub-category.
- The advantage of horizontal reservation in the Armed force sub-category is available to sons/daughters of 'defense personnel of U.P. either retired (superannuated) or martyred/disabled in action and the dependents settled in U.P.' or 'the defense personnel posted in U.P.' on the date of entrance test.
- Certificates 4, 5, and 6 in Appendix A are required at the time of document verification for claiming reservations in subcategories mentioned in sections 3.1(b).
- Please note that the benefit of the UPGL sub category will automatically be given to all female candidates.
- As per Guidelines from the Ministry of Defence, the order of priorities for reservation or preferences to the wards of Armed Forces Personnel by States/UTs/Central/State Universities/Autonomous. Institutions for admission in Medical/Professional/Non-professional Programs will be as follows:

Priority I	Widows/Wards of Defence personnel killed in action.
Priority II	Wards of disabled in action and boarded out from service.
Priority III	Wards of disabled in service and boarded out with disability attributable to military service.
Priority IV	Wards of disabled in service and boarded out with disability attributable to military service.
Priority V	Wards of Ex-Servicemen and serving personnel who are in receipt of Gallantry Awards: i. Param Vir Chakra ii. Ashok Chakra iii. Sarvottam Yudh Seva Medal iv. Maha Vir Chakra v. Kirti Chakra vi. Uttam Yudh Seva Medal vii. Vir Chakra viii. Shaurya Chakra ix. Yudh Seva Medal x. Sena, Nau Sena, Vayu Sena Medal xi. Mention-in-Dispatches.
Priority VI	Wards of Ex-Servicemen.
Priority VII	Wives of: i. defence personnel disabled in action and boarded out from service. ii. defence personnel disabled in service and boarded out with disability attributable to military service. iii. ex-Servicemen and serving personnel who are in receipt of Gallantry Awards.
Priority VIII	Wards of Serving Personnel.
Priority IX	Wives of Serving Personnel.

- j. *The advantage of horizontal reservation is not applicable for admission to M. Tech. Program.*

3.2 MEDICAL STANDARDS

- a. Candidates must submit a certificate of medical fitness/handicap on Certificate 8 in Appendix A at the time of document verification.
- b. The medical standards prescribed are as given below:

Medical Standards Applicable:

Height	Candidate should be Physically fit to pursue his/her studies in the opted Program.
Weight	
Chest Measurement	
Heart and lungs	No abnormality
Hernia, hydrocele, piles etc.	The presence of any of these is to be essentially corrected before joining.
Vision	Normal. If defective, it must be corrected to 6/9 in the better eye and 6/12 in the worse one. Eyes should be free from congenital or any other disease.
Hearing	Normal. If defective, it must be corrected before joining.
Physically handicapped/disabled	The candidate having any one type of physical handicap/ disability is given below.

Divyangjan/differently abled person :

Type – I	Minimum 40% Permanent Visual Impairment
Type – II	Minimum 40% Permanent Locomotors Disability
Type – III	Minimum 40% Permanent Speech and Hearing Impairment



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3.3 CATEGORY DEFINITIONS

S.No	Details	Code
a.	Candidates, who have passed the qualifying examination from an institution located in the State of Uttar Pradesh and who do not claim for any reserved category are eligible for admission to all the Programs in the University against available General (OPEN) seats (No certificate required).	UPGE
b.	Candidates, who have passed the qualifying examination from an institution located in U.P. and are domicile of U.P.; and belong to Schedule Caste (SC) of U.P./Schedule Tribe (ST) of U.P./Other Backward Classes of U.P./Economically Weaker Section (EWS) of U.P. are eligible for admission against available reserved seats of their respective category. Certificate 1 or 2 or 13A and 13B in Appendix A as applicable is required. List of SC, ST and OBC castes as per SC/ST Act 1976 and Government Order 4/1/2001-TC/Ka-2/2002 dt. 19/09/2002 and as provided by concerned U.P. Govt. department.	UPSC/ UPST/ UPBC/ UPGEEWS
c.	Candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are domicile of U.P.; and who have not claimed for any reserved category, are also eligible for admission to Programs offered in the University under General (OPEN) category. Such candidate has to produce the domicile certificate of his/her parents (father/mother only) at the time of counselling (Certificate 3 in Appendix-A)	UPGD
d.	Candidates, who have passed the qualifying examination from an institution located outside U.P.; and whose parents are domicile of U.P.; and who belong to Schedule Caste of U.P./Schedule Tribe of U.P./Other Backward classes of U.P. /Economically Weaker Section (EWS) of U.P. are also eligible for admission against reserved seats of their category. Such candidate has to produce the domicile certificate of his/her parents (Father/Mother only) (Certificate 3 in appendix A) and category certificate (Certificate 1 or 2 or 13A and 13B as applicable) at the time of counselling. List of SC, ST and OBC castes as per SC/ST Act 1976 and Government Order 4/1/2001-TC/Ka-2/2002 dt. 19/09/2002 and as provided by concerned U.P. Govt. department.	GDSC/ GDST/ GDBC/ UPGDEWS
e.	The domicile requirement to son/daughter of following is relaxed and admission is permitted to such: i. Defence personnel settled in U.P. on the date of Admission Test after retirement/being disabled in action or defence personnel killed in action and the dependents settled in U.P. on the date of entrance test. Certificate 5 Appendix-A is required. ii. Defence personnel who are not domicile of U.P. but are posted in U.P. on the date of entrance test. Certificate 5 in Appendix-A is required. iii. Employee of All India services belonging to U.P. cadre. Certificate 10 in Appendix-A is required. GDDA candidates will be considered as UPGD category for all other benefits. GDDA candidates will be considered as UPGD category for all other benefits.	GDDA
f.	For Admission to M. Tech./MCA/MBA/M.Sc. programs, the candidates, who have passed the qualifying examination from an institution located outside U.P. and whose parents are not domicile of U.P. are also eligible for admission to M. Tech./MCA/MBA/M.Sc. Programs offered in the University under the General (OPEN) category. (no certificate required).	OSGE

Abbreviation of allotted Category	Category	Subcategory
GNOP	General (OPEN) Open for all candidates of Home State (Uttar Pradesh)	—
GNGL	General	Girls of U.P.
GNAF	General	Sons/Daughters of defence personnel of U.P. either retired (superannuated) or killed/disabled in action or defence personnel posted in U.P.?

Abbreviation of allotted Category	Category	Subcategory
GNFF	General	Dependents of Freedom Fighters from U.P.
GNHC	General	Divyangjan/differently-abled persons of U.P.
EWOP	Economically Weaker Section of U.P.	
EWGL	Economically Weaker Section of U.P.	Girls of U.P.
EWAF	Economically Weaker Section of U.P.	Sons/Daughters of defence personnel of U.P. either retired (superannuated) or killed/disabled in action or defence personnel posted in U.P.’
EWFF	Economically Weaker Section of U.P.	Dependents of Freedom Fighters from U.P.
EWHC	Economically Weaker Section of U.P.	Divyangjan/differently-abled persons of U.P.
BCOP	Other Backward Classes of U.P.	
BCGL	Other Backward Classes of U.P.	Girls of U.P.
BCAF	Other Backward Classes of U.P.	Sons/Daughters of defence personnel of U.P. either retired (superannuated) or killed/disabled in action or defence personnel posted in U.P.’
BCFF	Other Backward Classes of U.P.	Dependents of Freedom Fighters from U.P.
BCHC	Other Backward Classes of U.P.	Divyangjan/differently-abled persons of U.P.
SCOP	Scheduled Caste of U.P.	
SCGL	Scheduled Caste of U.P.	Girls of U.P.
SCAF	Scheduled Caste of U.P.	Sons/Daughters of defence personnel of U.P. either retired (superannuated) or killed/disabled in action or defence personnel posted in U.P.’
SCFF	Scheduled Caste of U.P.	Dependents of Freedom Fighters from U.P.
SCHC	Scheduled Caste of U.P.	Divyangjan/differently-abled persons of U.P.
STOP	Scheduled Tribe of U.P.	
STGL	Scheduled Tribe of U.P.	Girls of U.P.
STAF	Scheduled Tribe of U.P.	Sons/Daughters of defence personnel of U.P. either retired (superannuated) or killed/disabled in action or defence personnel posted in U.P.’
STFF	Scheduled Tribe of U.P.	Dependents of Freedom Fighters from U.P.
STHC	Scheduled Tribe of U.P.	Divyangjan/differently-abled persons of U.P.
OP	OPEN (Open for all candidates of Other State (Other than Uttar Pradesh))	

Proforma of various certificates is available in Appendix A. In the case of the online category/reservation certificates, the advantage of the reserved category shall be provided subject to their online validation through the respective statutory websites, failing which such candidates will not be entitled to the advantage of the reserve category, and will be treated in the general category. In case of the candidates who do not submit the proper category/reservation certificate in the prescribed proforma at the time of document verification, the advantage of reserved category shall not be provided to them, and they will be treated in the General Category



4 ACADEMIC DEPARTMENTS OFFERING PG PROGRAMMES

4.1 DEPARTMENT OF CIVIL ENGINEERING

The Civil Engineering Department established in 1962, in Madan Mohan Malaviya University of Technology, Gorakhpur, is one of the oldest departments of the University, working since its inception. The department has, over the years, established its status as a centre for imparting high-quality technical education to undergraduate and post-graduate students and extending consultancy services to industries and various government departments located in the Eastern U.P. Besides the undergraduate course of B.Tech. (Civil Engineering), the department offers three regular P.G. courses viz. M.Tech. in Seismic Design and Earthquake Engineering and, M.Tech. in Structural Engineering and M. Tech. in Environmental Engineering. The facilities for doctoral research are also available in the department.

The department has experienced and highly qualified faculty members. The department capitalizes on its well-qualified and dedicated faculty, which is clamoring for achieving excellence. Further, the strength of the department also lies in the strong linkages, it has with its alumni and various government/private organizations located in the region. The alumni of the department are well placed in various govt. / private organizations and are in close contact with the department. The department has been continuously interacting with various government and private organizations in the form of consultancy works, expert advice, design projects, etc.

With the strength of faculty, the department has the potential to raise the standards of technical education to any desired level, if infrastructural facilities are augmented. Needless to mention, the university itself is located in the underdeveloped region of eastern U.P., which is both flood and drought-prone and lacks industrial development. These special needs of this under-developed region can only be tackled by us, because of our understanding of the local conditions. The department has following full-fledged laboratories equipped with internet facility through LAN.

⌘ Geotechnical Engineering Lab

⌘ Highway Engineering Lab

⌘ Survey Lab

⌘ Structure Lab

⌘ Engineering Geology Lab

⌘ Environmental and PHE Lab

⌘ Hydraulics & Water Resources Engineering Lab

⌘ Concrete Lab

⌘ Civil Engineering Computational Lab

Faculty of Civil Engineering Department



Dr. A. K. Mishra
Professor & Head
Transportation Engineering



Dr. Govind Pandey
Professor
Environmental Engineering



Dr. R. K. Shukla
Associate Professor
Remote Sensing, GIS and GPS



Shri Ram Dular
Associate Professor
Structural Engineering



Dr. Pawan Kumar Kumamuru
Associate Professor
Hydraulics and Water Resources



Dr. Vinay Kumar Singh
Assistant Professor
Structural Engineering



Dr. Sneha Gupta
Assistant Professor
Geo-technical Engineering



Dr. Vinay Bhushan Chauhan
Assistant Professor
Geotechnical Engineering



Dr. Rohit Kumar
Assistant Professor
Construction Technology and
Management



Dr. Pradeep Muley
Assistant Professor
Geotechnical Earthquake
Engineering



Dr. Piyush Kumar
Assistant Professor
Structural Engineering



Dr. Abhishek Prakash Paswan
Assistant Professor
Geotechnical Engineering



Dr. Krishna Kumar Singh
Assistant Professor
Environmental Engineering



Dr. Ravi Prakash Tripathi
Assistant Professor
Hydraulics and
Water Resources



Dr. Saurabh Kumar
Assistant Professor
Geotechnical Engineering



Dr. Deepak Prasad
Assistant Professor
Transportation Engineering



Shri Ramendra Pandey
Assistant Professor
Hill Area Development
Engineering



64 Glorious Years

Labs of Civil Engineering Department



4.2 DEPARTMENT OF ELECTRICAL ENGINEERING

The Department of Electrical Engineering at Madan Mohan Malaviya University of Technology (MMMUT), Gorakhpur, established in 1962, has built a distinguished legacy in delivering high-quality technical education across undergraduate, postgraduate, and doctoral levels. In addition to its academic excellence, the department offers consultancy services to industries and government organizations across Eastern Uttar Pradesh and beyond, reinforcing its commitment to societal and industrial development.

The department offers two regular M.Tech. programs—Power Electronics & Drives and Control & Instrumentation—along with a Ph.D. program in Electrical Engineering. It is currently undertaking several AICTE-

sponsored research projects that contribute to innovation and advancements in key areas of electrical engineering.

The department consistently promotes academic excellence, research, and innovation. Regular organization of seminars, workshops, and training programs fosters an enriched academic environment and strengthens industry-academia collaboration, offering students a blend of theoretical knowledge and practical exposure. Supported by a team of experienced faculty members and state-of-the-art laboratories are:

- ⌘ Electrical Machines & Electrical Workshop Lab
- ⌘ Computer/Research Lab
- ⌘ Power System Lab
- ⌘ Circuit Lab
- ⌘ Instrumentation Lab
- ⌘ Drives Lab
- ⌘ Centre of Excellence in Electrical Testing and Energy Systems Reliability
- ⌘ Switchgear and Protection Lab
- ⌘ Control System Lab
- ⌘ Network Lab
- ⌘ Electrical Measurement Lab
- ⌘ Power Electronics Lab
- ⌘ Non-Conventional Energy Resource Lab

Faculty members have made notable contributions to academic literature during the 2023–24 and 2024–25 sessions through the authorship of several books and book chapters, focusing on contemporary topics such as electric vehicles, power filters, microgrid stability, fuzzy controllers, and solar inverters. Over the past three years, the department has produced 53 research papers and 34 international conference papers published in reputed national and international journals and proceedings.

During the academic session 2023–24, the department actively engaged in industrial consultancy assignments with organizations such as UPPTCL, PWD, and UP Jal Nigam, providing expert solutions in power systems, infrastructure development, and electric vehicle technology. Furthermore, the department secured funding from premier agencies like MeitY, UPCST, and AICTE for sponsored research projects in domains such as agrivoltaics, electric mobility, and intelligent microgrid systems.

The Department also fosters a vibrant technical culture through its active professional societies and student chapters, such as the IEEE Student Branch, which play a pivotal role in promoting co-curricular engagement, technical skill development, innovation, and leadership among students.

Faculty of Electrical Engineering Department



Dr. Prabhakar Tiwari
Professor & Head
Power System



Dr. V. K. Giri
Professor
Control & Instrumentation



Dr. L. B. Prasad
Professor
Control & Instrumentation



Dr. S. K. Srivastava
Professor
Power System



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Dr. A. K. Pandey
Professor
Power Electronics & Drives



Dr. A. N. Tiwari
Professor
Power Electronics & Drives



Dr. Awadesh Kumar
Associate Professor
Control & Instrumentation



Dr. Navdeep Singh
Associate Professor
Power Electronics & Drives



Dr. Shikha Singh
Associate Professor
Power Electronics



Dr. Bindeshwar Singh
Associate Professor
Power System



Lt. K. B. Sahay
Assistant Professor
Power System



Dr. Shekhar Yadav
Assistant Professor
Control & Instrumentation



Mrs. Sapna B. Verma
Assistant Professor
Power Electronics &
Power Systems



Dr. Vivek Patel
Assistant Professor
Control System



Dr. Nikhil Kumar
Assistant Professor
Power System



Dr. Rohit Babu
Assistant Professor
Power System



Dr. Anil Kumar Pal
Assistant Professor
Control System



Dr. Anukriti Sharma
Assistant Professor
Power Electronics and
Renewable Energy

Labs of Electrical Engineering Department



**Electrical Machines &
Electrical Workshop Lab**



Switchgear and Protection Lab



Computer/Research Lab

*Control System Lab**Power System Lab**Network Lab**Circuit Lab**Electrical Measurement Lab**Instrumentation Lab**Power Electronics Lab**Drives Lab**Non-Conventional Energy Resource Lab*

4.3 DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering, established in 1962, has been consistently delivering quality education in the field of Mechanical Engineering through its undergraduate programme. In addition to the B.Tech. programme, the department offers postgraduate programmes, including an M.Tech. in Energy Technology and Management (since 2013) and an M.Tech. in CAD/CAM and Robotics (introduced from A.Y 2026-27). The department also conducts a Ph.D. programme through a structured entrance examination process. The department is supported by a team of highly qualified faculty members and skilled technical staff, ensuring a strong academic and research environment.

The Department has established a strong reputation for maintaining high standards in technical education and research. Its alumni occupy prominent positions in government, semi-government, and private sector organizations, both nationally and internationally, reflecting the department's academic excellence and professional impact. To promote holistic development, the department provides an active platform through the SAE Collegiate Club (MMMUT Chapter) and ASME Student Section enabling students to participate in state- and national-level technical events, thereby enhancing their extracurricular competencies alongside academic learning. The department



64 Glorious Years

is committed to continuous improvement of its infrastructure, with laboratories being regularly upgraded to support advanced teaching, research, and development activities. Recently, several modern and essential pieces of equipment have been incorporated to strengthen experimental and research capabilities. The department houses several well-established laboratories, all equipped with internet facilities to support contemporary academic and research needs.

- | | | |
|---------------------------------|---------------------------------|--|
| ⌘ Advanced Machining Lab | ⌘ Laser Material Processing Lab | ⌘ Composite Research Lab |
| ⌘ Morphology lab | ⌘ Solar Energy Lab | ⌘ Computer Lab |
| ⌘ Fluid Machinery Lab | ⌘ Heat Transfer Lab | ⌘ IC Engine & Automobile Lab |
| ⌘ Material Science Lab | ⌘ Measurement Lab | ⌘ Refrigeration & Air Conditioning Lab |
| ⌘ Strength of Materials Lab | ⌘ Theory of Machine Lab | ⌘ Metrology Lab |
| ⌘ Energy Conversion Systems Lab | ⌘ Mechanical Workshop | |

Faculty of Mechanical Engineering Department



Dr. Sanjay Mishra
Professor & Head
Production Engineering



Dr. Jeeoot Singh
Professor
Computational Mechanics



Dr. Pallav Gupta
Associate Professor
Materials and Manufacturing Engineering



Dr. Virendra Kumar
Associate Professor
Thermal Engineering



Dr. Manoj Kumar Gupta
Associate Professor
Polymer Matrix Composites



Dr. Ram Bilas Prasad
Assistant Professor
Design Engineering



Dr. Sunil Kumar Yadav
Assistant Professor
Production Engineering



Dr. Prashant Saini
Assistant Professor
Thermal Engineering



Dr. Dheerendra Singh
Assistant Professor
Thermal Engineering



Dr. Rabesh Kumar Singh
Assistant Professor
Manufacturing Engineering



Dr. Dipesh Kumar Mishra
Assistant Professor
Production Engineering



Dr. Ajeet Kumar
Assistant Professor
Thermal Engineering



Dr. Prem Shanker Yadav
Assistant Professor
Thermal Engineering



Dr. Amarish Kumar Shukla
Assistant Professor
Composites



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Shri Anjani Kumar Singh
Workshop Superintendent
Manufacturing Engineering



Shri Lal Bahadur Singh
Adjunct faculty
Thermal Engineering



Dr. Narendra Singh
Adjunct faculty
Thermal Engineering



Shri Mahabir Prasad Kandoi
Professor of Practice
Hydraulic machines



Dr. Bipin Kumar Srivastava
Professor of Practice
Welding & Fabrication

Labs of Mechanical Engineering Department



Advanced Machining Lab



Advanced Machining Lab



Solar Energy Lab



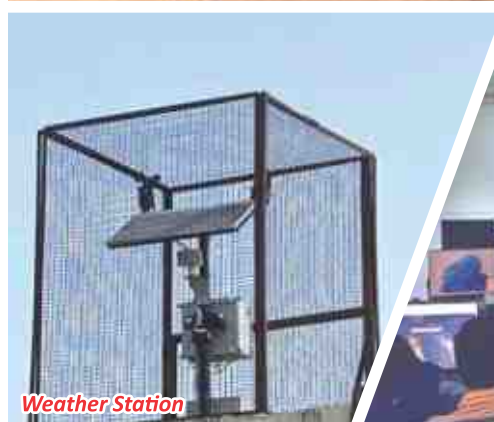
Refrigeration and Air Conditioning Lab



Heat & Mass Transfer Lab



Mechanical Workshop



Weather Station



Simulation Lab



UTM Machine



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4.4 DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

The Department of Electronics & Communication Engineering was established in the year 1973 with an intake of 20 and gradually increased to 75 from the academic session 2000-2001 and 120 from the academic session 2015-2016. The Department has made all-round progress in the last four decades because of firm determination and continuous efforts made by all the faculty members and staff of the department.

The Department offers full time M.Tech. in “Nanoelectronics and VLSI” and “Wireless and Optical Communication” respectively with an intake of 23 and 22 students in respective specialization. The Department of Electronics and Communication Engineering has incessantly maintained an excellent academic record. The appreciable virtue of the department is its vibrant learning circumstances where all the students and faculty members nourish the spirit of innovation, creativity and contribute productively to the evolution of technology. The department has excellent lab resources which are being enhanced from time to time and impart sufficient opportunities for the students to grasp and innovate. Students are motivated to take part in several activities like paper presentation, technical quiz, project design, project contest and cultural activities. Students are encouraged to go through in-plant training and various industrial visits are scheduled each year to get industry exposure.

The Department also offers regular Ph.D. program through QIP & TEQIP/University schemes. To enhance the knowledge of students and fulfil the gap among the academia and industries, the Department has recently established the Center of Excellence (CoE) Lab by the Texas Instruments under the Texas Instruments University Program, IoT & Embedded System Project Lab and Artificial & Drone Design Project Lab.

The Department has always been on a progressive path, thanks to the experienced and dedicated faculty members who have a strong commitment towards providing quality engineering education and research. The Department has 24 Regular faculties, 06 contract faculties and 01 Adjunct faculty.

The Department offers:

- ⌘ B.Tech in ECE (Started in 1973)
- ⌘ B.Tech in ECE (IoT,) (Started in 2023)
- ⌘ M.Tech (VLSI), M.Tech (Communication Systems) and M.Tech. (Avionics)
- ⌘ Doctoral programs in Electronics and Communication Engineering

Major Research area of the Department:

- ⌘ Optics & Photonics
- ⌘ Photovoltaics and Solar cells
- ⌘ VLSI Design
- ⌘ Nanoelectronics
- ⌘ IoT and Wireless Communication

Centre of Excellence Laboratories in the Department:

- ⌘ Space Centre of Excellence
- ⌘ Drone Centre of Excellence
- ⌘ Centre of Excellence in Next Generation Semiconductor and Nano devices

Faculty of Electronics & Communication Engineering Department



Dr. Sanjay Kumar Soni
Professor & Head
UAV, IoT and AI,
Wireless Communication



Dr. Rajeev Kumar Chauhan
Professor
VLSI Design,
Photovoltaic



Dr. Rajan Mishra
Associate Professor
Microstrip Antenna,
Solar Cell



Dr. Vinod Kumar
Associate Professor
Semiconductor devices fabrication
and characterization



Dr. Ajay Kumar Baranwal
Associate Professor
Nanoelectronics, Organics
Electronics Devices, VLSI



Dr. Vijay Kumar Sharma
Associate Professor
VLSI, Nanoelectronics
Low Power Circuits



Dr. Meenakshi Chaudhary
Associate Professor
Semiconductor Devices
Fabrication & Characterization



Dr. Vijay Kumar Verma
Associate Professor
Embedded System IoT, Robotics and
Control Analog Signal Processing.



Dr. Sudhansu Verma
Assistant Professor
RF Antenna &
Solar Cell



Dr. Gagandeep Bharti
Assistant Professor
Microstrip Antenna



Dr. Pooja Lohia
Assistant Professor
Optical Material and Devices,
Solar cell



Dr. Anupam Sahu
Assistant Professor
Photonics and
Quantum Electronics



Dr. Bramha P. Pandey
Assistant Professor
Nanomaterials & Nanodevices



Dr. Chandan
Assistant Professor
Antenna Design,
VLSI and Photonics



Dr. Vijay Shankar Chaudhary
Assistant Professor
Photonics, Photonic
Crystal Fiber based Sensors



Dr. Prince Kumar Singh
Assistant Professor
Modelling & Simulation of Semiconductor
Devices, Neuromorphic computing



Mr. Alok Kumar Shukla
Assistant Professor
Spintronic, Radiation
Hardened Memories



Dr. Prateek
Assistant Professor
Wireless sensor Networking,
Wireless Communication



Dr. Neha Mishra
Assistant Professor
Nanomaterials &
Nanodevices



Dr. Dinesh Kumar Kotary
Assistant Professor
Wireless sensor Network, Wireless Communication,
Soft Computing Machine Learning



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Dr. Shivam
Assistant Professor
Optics
and
Photonics



Dr. Ankit Verma
Assistant Professor
Fabrication and
Modelling of
Thin Film Devices



Dr. Shalabh Kumar Mishra
Assistant Professor
Analog & Digital Signal
Processing,
Filter Design



Dr. Pragyey Kumar Kaushik
Assistant Professor
RF & Power
Semiconductor Devices



Dr. Akhlesh Kumar Chaudhary
Assistant Professor (IoT)
Photovoltaic Energy Systems,
Embedded System Design,
Cryptographic Techniques &
Security, AI-Driven IoT Systems



Dr. Ram Pravesh
Assistant Professor (IoT)
Photonics



Dr. Raj Kumar Singh
Assistant Professor (IoT)
Robotics,
IoT and Control



Dr. Praveen Kumar Rao
Assistant Professor (IoT)
IoT based Antennas Sensor,
Biomedical Devices



Dr. Suyash Kumar Singh
Assistant Professor (IoT)
AI-based Antennas,
Deep Learning, Computer Vision,
Biomedical Devices, IoTs



Ms. Shweta Yadav
Assistant Professor (IoT)
Solar Cells,
Photodetector, VLSI

Labs of Electronics & Communication Engineering Department



Embedded System and Drone Design Lab



Embedded System and Drone Design Lab





Communication Lab



VLSI Research Lab



Drone Exhibition in front of Governor, Chief Minister, Cabinet Minister, Principal Secretary of Governor and ADG Gorakhpur





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4.5 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science & Engineering (CSED) at Madan Mohan Malaviya University of Technology (MMMUT), Gorakhpur, is committed to excellence in teaching, research, innovation, and professional development. The department focuses on producing competent computer science professionals equipped with strong theoretical foundations, practical skills, and research-oriented thinking, aligned with rapidly emerging technological advancements and industry requirements. The department offers comprehensive academic programmes at multiple levels to address modern technological and research demands. It offers a B.Tech in Computer Science & Engineering, an M.Tech in Computer Science & Engineering with specializations in Artificial Intelligence, Cyber Forensics, and Spatial Information Technology, and a Doctoral (Ph.D.) Programme in Computer Science & Engineering that promotes advanced research, innovation, and interdisciplinary learning.

The department demonstrated strong research productivity during the reporting period with 30 international journal publications and 30 conference publications. Faculty members also contributed to innovation through 13 patents filed/published and 21 books, book chapters, and monographs. Additionally, 34 faculty members served as reviewers or editors for reputed refereed journals and academic publications, reflecting active participation in the global research community.

The department has significantly strengthened research infrastructure through the development of advanced laboratories, including the Artificial Intelligence Centre, Advanced Cyber Forensics Research Lab, Spatial Information Technology & Digital Twin Lab, Augmented Reality & Virtual Reality Lab, Computer Vision Lab, Integrated Big Data & IoT Lab, and the Multidisciplinary Innovation & Edge Deployment Lab, supporting interdisciplinary research and innovation-driven learning.

The department has the following full-fledged laboratories equipped with modern computing resources and high-speed internet facilities to support teaching, practical learning, and advanced research activities:

Faculty of Computer Science & Engineering Department



Dr. Rakesh Kumar
Professor & Head
Artificial Intelligence, and
Machine Learning



Dr. P.K. Singh
Professor
Parallel Computing, Storage Systems,
Machine Learning.



Dr. Meenu
Associate Professor
Database Systems, Machine
Learning, Web Mining



Dr. Satya Prakash Yadav
Associate Professor
Digital Image Processing, and
Feature Extraction



Dr. Birendra Kumar Sharma
Associate Professor
Algorithms, Digital image processing,
IPR, ML/DL, Digital forensic



Dr. Ritesh Maurya
Associate Professor
Deep Learning, and
Machine Learning



Dr. Shailendra Pratap Singh
Associate Professor
Deep Learning, and
Internet of Things(IoT)



Dr. Lokendra Singh Umrao

Associate Professor
Blockchain Technology, and
Multi-core Architecture



Dr. M.K. Srivastava

Assistant Professor
Machine Learning,
Automata Theory



Dr. Rohit Kumar Tiwari

Assistant Professor
Computer Vision, and
Machine Learning Applications



Dr. Sushil Kumar Saroj

Assistant Professor
Image processing,
and Machine learning



Mr. Manish Kumar Gupta

Assistant Professor
Big Data, Blockchain,
Mathematical Computation



Dr. Ninni Singh

Assistant Professor
Cognitive Intelligence, and
Artificial Intelligence



Dr. Shantanu Shahi

Assistant Professor
Facial Recognition, and
Pattern Recognition



Dr. Raj Kumar

Assistant Professor
Information Security,
IoT and PQC, TOC



Dr. Vipul Narayan

Assistant Professor
Wireless Sensor Network, and
Machine Learning



Dr. Swapnita Srivastava

Assistant Professor
Computer Architecture,
Cache Memory,
Machine Learning



Dr. Avaneesh Singh

Assistant Professor
Mathematical modelling,
and
Artificial Intelligence



Dr. Anu Raj

Assistant Professor
Internet of things(IoT),
and Wireless Sensor
Network(WSN)



Dr. Vimal Kumar

Assistant Professor
Computer Networks,
and
Cryptography



Dr. Pradeep Kumar Singh

Assistant Professor
Data Mining,
and
Machine Learning



Dr. Abhishek Verma

Assistant Professor
Deep Learning, and
Computer Vision



Dr. Amit Kumar Dwivedi

Assistant Professor
Federated Learning, and
Blockchain



Dr. Shwet Ketu

Assistant Professor
Internet of things (IoT), and
Machine Learning



Dr. Ram Kumar

Assistant Professor
Artificial Intelligence, and
Information Retrieval



Dr. Satvik Vats

Assistant Professor
Big Data, Deep Learning,
Machine Learning, Digital
Health, Smart Agriculture



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Dr. Shailesh Kumar
Assistant Professor
Computer Architecture, and
Multi core Architecture



Dr. Pawan Kumar Mall
Assistant Professor
Deep Learning, and
Machine Learning



Dr. Satya Prakash Maurya
Assistant Professor
Artificial Intelligence, and
Decision Science



Mr. Sanjay Kumar
Assistant Professor
Database System, and
Cryptography and
Information Security



Dr. Sumit Kumar
Assistant Professor
Machine Learning,
Deep Learning,
Image Processing

Labs of Computer Science and Engineering Department



Artificial Intelligence Centre



Advanced Cyber Forensics Research Lab



Data Structure and Algorithms Lab



Computer Networks Lab



Computer Vision Lab



Database and Web Design Lab



Industrial Visit



Student Activity (Flux Ideathon)



4.6 DEPARTMENT OF CHEMICAL ENGINEERING

The Department of Chemical Engineering was started in the year 2016 with 60 undergraduate students in the B. Tech. Chemical Engineering programme and M.Tech. Chemical Engineering Program is 18. The postgraduate Programmes of M.Tech., in Chemical Engineering and Ph.D. was started in year 2024 and 2018 respectively. The department is well equipped with good undergraduate laboratories and research laboratories that have been upgraded. In line of vision of MMM University of Technology, the Department's goal is to offer students with a balanced set of academic and practical skills that will enable them to serve both the global chemical industry and societal requirements. Many funded research projects have been completed, and a few are now underway, with funding from prestigious organizations such as the Department of Science and Technology (SERB) and the Council of Science and Technology, Uttar Pradesh (UP-CST) in a variety of research areas. We are putting our efforts to provide students with an overall educational experience that will enable them to be successful professional chemical engineers capable of lifelong learning and furthering their studies. The department is planning to start center of excellence in frontiers in the area of sustainable development. The programmes offered by the department are:

S.No.	Program	Year	Intake
1	B.Tech. (Chemical Engineering)	2016	60
2	M.Tech. (Chemical Engineering)	2024	18
3	Ph.D. (Chemical Engineering)	2018	—

Centre of Excellence

- ⌘ Green for Hydrogen (49.998 Crore Approved from UPNEDA)
- ⌘ Food and Drug Engineering
- ⌘ Critical minerals and Smart Mining

Laboratories of Department

- ⌘ Mass Transfer Operations
- ⌘ Instrumentation and Process Control Lab
- ⌘ Mechanical Operation Lab
- ⌘ Sugar/Alcohol Lab
- ⌘ Heat Transfer Operations
- ⌘ Chemical Reaction Engineering Lab
- ⌘ Modeling and Simulation Lab
- ⌘ Research Analytical Instrumentation Lab

Faculty of Chemical Engineering Department



Dr. Vitthal L. Gole

Professor & Head

Process Intensification, Sonochemistry, Energy and Environment, Heat and Mass Transfer, Electrochemical



Dr. Ravi Shankar

Assistant Professor

Advanced Oxidation Process



Dr. Jyoti

Assistant Professor

Advanced oxidation Processes, Polymeric composites, Water treatment



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Dr. Prateek Khare
Assistant Professor
Electrochemical applications,
Advance Separation Process



Dr. Jitendra Kumar Singh
Assistant Professor
Membrane Separation



Dr. Ajay Sujan
Assistant Professor
Mass Transfer, Hydrodynamic, Modelling
and Simulation, Machine Learning



Prof. Vimal Rai
Professor of Practice
Process Engineering

Labs of Chemical Engineering Department



Mass Transfer Operations



Heat Transfer Operations



Mechanical Operation Lab



**Instrumentation and
Process Control Lab**



Research Analytical Instrumentation Lab



**Chemical Reaction
Engineering Lab**



Sugar/Alcohol Lab

4.7 DEPARTMENT OF INFORMATION TECHNOLOGY AND COMPUTER APPLICATION

The Department of Information Technology and Computer Application (ITCA) was formally inaugurated on 24 August 2018 by the Hon'ble Chancellor of Uttar Pradesh, Shri Ram Naik, in the esteemed presence of the Hon'ble Vice-Chancellor of Madan Mohan Malaviya University of Technology (MMMUT), Gorakhpur. The department commenced its academic activities on 25 August 2018 with postgraduate programme in Master of Computer Applications (MCA) and M.Tech in Information Technology, along with a Doctoral (Ph.D) programme. Subsequently, an undergraduate programme, B.Tech. in Information Technology, was introduced in the academic session 2019–2020.

The department aspires to attain national and international prominence through excellence in teaching, research, and innovation. It is supported by a team of highly qualified, dedicated, and motivated faculty members who are committed to nurture the students and research scholars into competent IT professionals and accomplished researchers. The department also takes pride in its distinguished alumni, who are contributing significantly to reputed organizations in India and abroad.

Academic Programme

The department offers a comprehensive range of undergraduate, postgraduate, and doctoral programme designed in accordance with contemporary academic and industry requirements.

Undergraduate Programme

- ⌘ **B.Tech. in Information Technology**

Postgraduate Programme

- ⌘ **Master of Computer Applications (MCA)**
- ⌘ **M.Tech. in Information Technology**

Doctoral Programme

- ⌘ **Ph.D. in Information Technology and allied areas**

The curricula across all programme are regularly revised and updated to reflect rapid advancements in technology, ensuring alignment with industry demands and academic standards. The postgraduate programme follow a Choice Based Credit System, enabling students to pursue interdisciplinary learning by selecting courses within and beyond the department. The courses are designed to incorporate advanced and research-oriented topics, fostering analytical thinking and innovation.

Research Areas

The department actively promotes high-quality research across a broad spectrum of cutting-edge domains, broadly categorized as follows:

IoT and Network Security

- | | |
|---------------------------------------|---------------------------------------|
| ⌘ Internet of Things (IoT) | ⌘ Blockchain and Cryptocurrency |
| ⌘ Information Security and Cyber Laws | ⌘ Big Data Technologies and Analytics |

Artificial Intelligence and Machine Learning

- ⌘ Neural Networks, Optimization, and Model Reduction
- ⌘ Pattern Recognition and Feature Engineering
- ⌘ Deep Learning on Graphs and Probabilistic Models
- ⌘ Big Data Analytics and Computer Vision

Laboratory Infrastructure

The department is equipped with **state-of-the-art laboratories** that provide a robust environment for practical



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learning and advanced research. Each laboratory is supervised by a **Faculty-in-Charge** and supported by technical staff, ensuring efficient management and optimal utilization of resources. The laboratories are well-equipped to support emerging technologies such as **IoT, Artificial Intelligence, Machine Learning, Blockchain, Cloud Computing, and Network Security** etc.

Computing Facilities

- ⌘ **PG & Research Lab** equipped with 30 systems (i7-based)
- ⌘ **High Performance Computing Lab** 41 HP ProOne 440 (23.8" G9 All-in-One systems)
- ⌘ **IoT & Network Security Lab** equipped 50 HP Intel Core i7-14700, 23.8" All-in-One PC
- ⌘ **Cloud Computing Lab** equipped with 38 HP ProOne 440 (23.8" G9 All-in-One systems)
- ⌘ **Simulation & Modelling Lab** equipped with Workstation (05) and 19 All in One PC (Under Development)

Faculty of Information Technology and Computer Application Department



Dr. D. S. Singh
Professor & Head
Cryptography &
Network Security



Dr. Sarvpal Singh
Professor
Wired/Wireless networking,
Mobile & Cloud Computing, Linux OS



Dr. Shiva Prakash
Professor
Wired/Wireless Networks,
and IoT



Dr. Jay Prakash
Professor
Wireless Sensor Networks,
and UAV



Dr. R.K. Dwivedi
Associate Professor
Sensor Cloud, IoT, and
Wireless Sensor Networks



Dr. Audithan Sivaraman
Associate Professor
Image Processing, and
Network Security



Dr. Ashish Srivastava
Assistant Professor
UAV and
Wireless Sensor Networks



Mr. Vijay Kumar Tiwari
Assistant Professor
Internet of Vehicles,
and Computer Network



Ms. Pranjal Maurya
Assistant Professor
Operating system, and
Machine Learning



Dr. Preeti Singh
Assistant Professor
Machine Learning, Fuzzy logic, and
Neural Network



Ms. Kumud Patel
Assistant Professor
Machine Learning, and
Deep Learning



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Ms. Prachi Verma
Assistant Professor
Machine Learning,
and
Artificial Intelligence



Mr. Tejbahadur
Assistant Professor
Natural Language Processing,
Machine Learning,
Database



Dr. Tripti Tripathi
Assistant Professor
Machine/Deep Learning,
Data Science,
Data Mining



Ms. Madhulika
Assistant Professor
Computer Network,
Data Analytics,
Machine Learning, AI & NLP



Ms. Niharika Singh
Assistant Professor
VANET, Machine
Learning, Deep Learning,
WSN, Big Data



Mr. Amrithesh Kumar Gupta
Assistant Professor
Blockchain and Security,
IoT, Computer
Networks



Dr. Sneha Mishra
Assistant Professor
Social Network, Dynamic
Graphs, Machine Learning,
Data Mining



Ms. Nida Shakeel
Assistant Professor
Internet of Things,
Computer Network,
Blockchain Technology



Dr. Jitendra Mohan
Professor
Practice Cyber Security



Dr. Lipo Wang
Foreign Faculty
Foreign Faculty

Labs of Information Technology and Computer Application Department



PG & Research Lab



High Performance Computing Lab



IoT & Network Security Lab



Cloud Computing Lab



64 Glorious Years

4.8 DEPARTMENT OF PHARMACEUTICAL SCIENCE & TECHNOLOGY

The Department of Pharmaceutical Science and Technology was established in the academic session 2021–22 with an initial intake of 60 students for the Bachelor of Pharmacy (B.Pharm.) program. The department is dedicated to advancing pharmaceutical education and research, with a vision to emerge as a centre of excellence that nurtures competent, globally competitive professionals with promising careers.

In the academic year 2024–25, the department expanded its academic portfolio by introducing a Ph.D. program in Pharmaceutical Sciences, further strengthening its commitment to advanced research, innovation, and academic excellence. The department currently offers undergraduate, postgraduate, and doctoral programs. The B.Pharm. and M.Pharm. programs offered by the department are duly approved by the Pharmacy Council of India, in accordance with its prescribed norms and regulations. The Pharmacy programs are designed to impart strong theoretical foundations along with practical skills, enabling students to serve effectively in the pharmaceutical industry and healthcare sector. Emphasis is placed on patient-centric care, rational drug use, and professional ethics. The department provides a conducive learning environment supported by well-equipped laboratories, modern classrooms, and seminar facilities to promote high-quality teaching, learning, and research.

Programs Offered:

- ⌘ **B.Pharm.** – Intake: 100 students
- ⌘ **M.Pharm. (Pharmaceutics)** – Intake: 15 students
- ⌘ **M.Pharm. (Pharmaceutical Chemistry)** – Intake: 15 students
- ⌘ **Doctor of Philosophy (Ph.D.) in Pharmaceutical Sciences**

Areas of Research:

- ⌘ Novel drug delivery systems (NDDS) and targeted drug delivery
- ⌘ Nanotechnology and nanomedicine
- ⌘ Pharmaceutical formulation and development
- ⌘ Pharmacokinetics and biopharmaceutics
- ⌘ Medicinal chemistry and drug design
- ⌘ Herbal drug technology and phytopharmaceuticals
- ⌘ Analytical method development and validation
- ⌘ Quality assurance and regulatory affairs
- ⌘ Stability studies and pharmaceutical product development
- ⌘ Computational drug design and molecular modeling

Laboratories of Department

- | | |
|----------------------------------|-----------------------------------|
| ⌘ Pharmaceutics-I Lab | ⌘ Pharmaceutical Microbiology Lab |
| ⌘ Pharmaceutics-II Lab | ⌘ Pharmaceutical Analysis Lab |
| ⌘ Pharmaceutical Chemistry I Lab | ⌘ Pharmaceutical Chemistry II lab |
| ⌘ Human Anatomy Physiology Lab | ⌘ Pharmacology Lab |
| ⌘ Pharmacy Practice lab | ⌘ Pharmacognosy Lab |
| ⌘ Central Instrumentation Lab | ⌘ Machine Room |

Research Facilities (Major Instruments)

- ⌘ HPLC
- ⌘ Fluorimeter
- ⌘ UV Spectrophotometer (Double Beam)
- ⌘ Conductivity meter
- ⌘ IR moisture balance
- ⌘ Laminar Air flow
- ⌘ UV cabinet
- ⌘ Phase contrast microscope
- ⌘ FT-IR
- ⌘ Automatic Digital Polarimeter
- ⌘ High Shear Homogenizer
- ⌘ Potentiometer
- ⌘ BOD incubator
- ⌘ Franz diffusion cell
- ⌘ Antibiotic Zone reader

Faculty of Pharmaceutical Science & Technology Department



Dr. Vitthal L. Gole
Professor & Head
Process Intensification,
Sonochemistry,
Advanced Oxidation Process



Dr. Smriti Ojha
Professor
Pharmaceutics, Novel Drug
Delivery, Nanotherapeutics



Prof. Alok Kumar Dash
Professor
Pharmaceutical Chemistry,
Medicinal Chemistry,
Phyto Chemistry



Dr. Anju Verma
Assistant Professor
Pharmacognosy,
Phytochemistry



Mrs. Amrita Singh
Assistant Professor
Pharmaceutical Chemistry,
CADD



Dr. Saba Parveen
Assistant Professor
Pharmacology,
Hepatotoxicity



64 Glorious Years



Mr. Gauri Shankar
Assistant Professor
Pharmaceutical Chemistry,
Medicinal Chemistry,
Phyto Chemistry



Ms. Preeti
Assistant Professor
Pharmaceutics,
Transdermal Drug Delivery,
Targeted Drug Delivery



Dr. Rohit Kumar
Assistant Professor
Cancer, Computational Biology, Stress
biology, In-Vitro cell cultures, and
Drug Delivery and Nanotechnology.



Dr. Sunil Kumar Raman
Assistant Professor
Pharmaceutics, Novel Drug
Delivery System,
Infectious Disease

Labs of Pharmaceutical Science & Technology Department



4.9 DEPARTMENT OF MANAGEMENT STUDIES

The Department of Management Studies was established in year 2001. The main objective of the department is to impart academic programs in the field of management studies, and act as a centre of excellence in the field of management practices and applications in addressing the challenges of the emerging global business environment, society, and industries.

The department offers UG, PG and Ph.D. programmes in management studies. A 4-year UG programme namely the Bachelor of Business Administration (BBA) with the major and minor specializations is being run by the department. A 2-year PG programme namely the Master of Business Administration (MBA) with dual specializations in Marketing, Finance, Human Resource, Operation Management, Information Technology, Entrepreneurship, and International Business is being run since the inception of this department. Also, the department is imparting the Doctoral degree programme namely the Doctor of Philosophy (Ph.D.) in Management Studies with the major specializations in research areas of Marketing, Finance, Human Resource, Operation Management, Information Technology, and Entrepreneurship Development, and other relevant and the emerging fields.

The department had national MOU with IIM Indore, and international MOU (University of Wisconsin- USA). Currently two students' societies are existing in the aegis of department namely ESHAN and Finance Club.

The department regularly organises the various expert lectures by international and national renowned experts from the academic institutions and the industries on the relevant topics. And the department organises the various co-curricular activities through its finance club for the overall development of management skills being inculcated in the students.

Presently, the department is having 01 Professor working as the Head of Department of Management Studies supporting from the Department of Electrical Engineering, 13 Assistant Professors, 01 Professor of Practice supporting from industry, and 04 Guest Faculties are doing the academic activities of the department. The certain faculties of other departments of university also supports the various academic and other activities of the department.

State-of-Art Facilities in the Department:

- ⌘ **MSD Computer Lab:** The computer lab is equipped with 40 PCs of i7 processors and latest software for analytical studies for various project and research work by management students.
- ⌘ **Smart Classrooms:** The department is having exclusively three lecture halls equipped with latest interactive panel for better experience in teaching learning process. In addition to that the smart classrooms equipped with latest interactive panels located in the central lecture hall complexes of the university are also being utilized for the students of the department.
- ⌘ **Smart Seminar Hall:** The department is having exclusive one seminar hall equipped with latest interactive panel for better experience in teaching-learning process. The seminar hall is utilized for various activities such as seminar, conference and expert lecture.
- ⌘ **Conference Hall:** The department is having a well-furnished conference hall being utilized for the various departmental meetings, project examinations, and other academic activities.
- ⌘ **Departmental Library:** The department is having its own departmental library containing the reference books, research projects, seminar reports and magazines etc. for easy access to students and engage in learning activities.



64 Glorious Years

Faculty of Management Studies Department



Dr. L. B. Prasad
Professor and Head
Management Studies Department
Control Theory and Applications;
Management Control Systems;
Business Process Reengineering



Dr. Bijendra Kumar Pushkar
Assistant Professor
Marketing,
Information Technology
and Finance



Dr. Ugrasen
Assistant Professor
Finance & Accounting,
Marketing,
Entrepreneurship and
General Management



Dr. Priyanka Rai
Assistant Professor
Human Resource,
Finance,
Managerial Economics,
Statistics and Accounting.



Dr. Bharti Shukla
Assistant Professor
Human Resource,
Marketing,
Managerial Economics and
Entrepreneurship



Dr. Javed Alam
Assistant Professor
Human Resource,
Marketing,
Entrepreneurship and
General Management



Dr. Sonia Bhatt
Assistant Professor
Marketing, Human Resource and
General Management



Dr. Kalpana Singh
Assistant Professor
Financial Management,
Human Resource Management
Banking, Business Statistics



Dr. Manisha Singh
Assistant Professor
Human Resource and
Accounting



Dr. Poonam Ojha
Assistant Professor
Marketing Management, Consumer
Behaviour, Business Research, Business
Economics and Business Statistics



Dr. Anjali Singh
Assistant Professor
Financial Market, Financial
Services, Financial Accounting,
Business Communication



Dr. Indal Kumar
Assistant Professor
Financial Market, Financial
Services, Financial Accounting,
Business Communication



Dr. Vivaswan Singh
Assistant Professor
Servqual Marketing, Business
Statistics, Managerial Economics,
Research Methodology



Mr. Sachin Srivastava
Assistant Professor
Green Finance, Sustainable
Finance, Stock Market,
Environmental Economics



Dr. Sunil Kumar Mishra
Professor of Practice
(Honorary)
Human Resource and
General Management



Dr. Prashant Tripathi
Professor of Practice
Marketing and
General Management



Dr. Gyan Prakash Mishra
Professor of Practice
Labor law, Company Law and
Human Resource



Dr. Keshav Lal Vishwakarma
Professor of Practice
(Honorary)
Finance and
General Management

Labs of Management Studies Department



4.10 DEPARTMENT OF PHYSICS AND MATERIAL SCIENCE

The Department of Physics and Material Science has been started in 2019, inaugurated by Shri Yogi Adityan Ji Mahraj, Hon'ble Chief minister of Uttar Pradesh. Earlier it was the constituent part of Department of Applied Sciences which was established in 1962 since inception of then Madan Mohan Malaviya Engineering College Gorakhpur. The objective of the present department is to impart teaching and promote the implementation of practical aspects related to the Physics and Material Science to build a solid foundation as part of the Engineering Education. Apart from this, the department is also dedicated for the promotion of science education in higher studies through the post graduate course in physics running in the department. The Department also promotes teaching and research in new and emerging areas and encourages the academic interaction of the faculty members and students for research and development at national and international levels.

Courses (Degree) offered by Department:

Following courses are offered by the department of Physics and Material Science

1. M.Sc. in Physics with specialization in electronics from the session 2018-19
2. Ph.D. in Physics since inception of university erstwhile Engineering College from 1962

The Department has well equipped laboratories for undergraduate, post graduate students and research scholars pursuing their Ph.D. degree. The department is backed by well-educated, talented and dedicated faculty members to fulfil the objectives of the department. The Department has following laboratories with internet facilities:

- ⌘ Physics Laboratory
- ⌘ Electronic Devices and Circuit Laboratory
- ⌘ Condensed Matter Physics Laboratory
- ⌘ Spectroscopy and Laser Laboratory
- ⌘ Analog and Digital Communication Laboratory
- ⌘ Optoelectronics and Optical Communication Laboratory
- ⌘ Microprocessor Laboratory
- ⌘ Photonic and Photovoltaic Research Laboratory
- ⌘ Computational Condensed Matter Physics Research Laboratory
- ⌘ Nano Fluid Research Laboratory

Faculty of Physics and Material Science Department



Dr. B. K. Pandey

Professor and Head
Solar Cell, Molecular modelling
using DFT, and Nanofluids



Dr. D. K. Dwivedi

Professor
Solar cell, Photonics, Optical fiber
sensors, and energy storage devices



Dr. S.P. Singh

Professor
Condensed Matter Physics &
Nanoscience



Dr. Suraj Kumar Singh

Assistant Professor
Solid state Materials,
Spintronics and Magnonics



64 Glorious Years

Labs of Physics and Material Science Department



4.11 DEPARTMENT OF CHEMISTRY & ENVIRONMENTAL SCIENCE

Department of Chemistry & Environmental Science is the new emerging academic department of MMMUT, Gorakhpur. The department was established on June 22, 2019 and inaugurated by Goraksha Pithadish Param Pujya Sri Yogi Adityanath Ji Maharaj, the Honourable Chief Minister of Uttar Pradesh under the visionary leadership of renowned academican and technocrat Professor Sri Niwas Singh, Hon'ble Vice Chancellor of Madan Mohan Malaviya University of Technology, Gorakhpur. The Department is committed to fostering a respectful workplace culture and strives to cultivate a safe, inclusive and fair environment where staff, faculty, researchers and students can thrive as they advance new chemical frontiers through research, innovation, collaboration and scholarship.

As the nascent upcoming department, the pivotal focus is to cater to the academic and research requirements of the budding engineers and basic science researchers. It's vision is to become a leading university department by conducting quality research in the area of Chemical Science and Environmental Science and offer solutions to the problems organic, inorganic, physical, industrial, analytical chemistry and also solving ecological, environmental

problems under the guidance of highly qualified academic team. Apart from imparting quality education to various graduation courses, the department offers Ph. D. in Chemistry as well.

The Department of Chemistry & Environmental Science provides a unique focus for addressing some of today's most pressing environmental and chemical problems. Additional opportunities for joint research are available with our colleagues at the premier Indian Institute of Department of Chemistry, Indian Institute of Technology, New Delhi, as well as International Institute at the Korea Research Institute of Chemical Technology, South Korea. The department's research is supported by grants and contracts from government sources, with principal strengths in the areas of polymeric materials, artificial photosynthesis, molecular modeling and environmental analysis. The department has following full-fledged laboratories equipped with internet facility.

- ⌘ B.Tech. Lab.
- ⌘ M.Sc. Lab. I & II
- ⌘ Polymer Lab.
- ⌘ Artificial Photosynthesis Lab
- ⌘ Speciality Polymers Lab.
- ⌘ Instrumental Lab.

Faculty of Chemistry & Environmental Science Department



Dr. Rajesh K. Yadav

Professor and Head

Artificial Photosynthesis systems for efficient and sustainable hydrogen production by directly converting solar energy into clean fuel



Dr. P. P. Pande

Professor

Environmental Chemistry, Wastewater Treatment and Polymer Synthesis



Dr. Shubham Jaiswal

Assistant Professor

Synthesis of transition metal complexes and its applications, Electrochemical Sensing of Environmental pollutant and drugs



Dr. Pooja Singh

Assistant Professor

Artificial photosynthesis. A New Archetype for Using Solar Energy in the Photocatalytic Synthesis of Medicinally Active Compounds



Prof. Bali Ram

Adjunct Faculty
Inorganic Chemistry



Dr. N. L. Mishra

Professor of Practice
X-ray spectroscopy



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Labs of Chemistry & Environmental Science Department



B.Tech. Lab



Instrumental Lab



Speciality Polymers Lab



M.Sc. Chemistry Lab



Research Lab

4.12 DEPARTMENT OF MATHEMATICS AND SCIENTIFIC COMPUTING

The Department of Mathematics and Scientific Computing attained its present status of an independent department on 22nd June 2019. Prior to this department was constituent part of Applied Science Department, established in 1962. The courses offered by the department are:

- ⌘ **M.Sc. Mathematics (Specialization in Computing)**
- ⌘ **Ph.D. in Mathematics**

Besides this, department also offer various courses of Mathematics to Undergraduate and Postgraduate students of different Engineering, Science and management Departments of the university. The faculty members of the department have expertise across areas of both pure and applied mathematics with major research area such as Modern Algebra, Ring Theory, Operations Research, Inventory Control, Graph Theory, Numerical Analysis, Differential Equations, Special Functions, Fluid Dynamic, Fluid Mechanics, Water Waves, Cryptography, Fuzzy Reliability Theory and Mathematical Modelling.

Advanced Computational Laboratory

Salient Features:

1. Our computational lab is well equipped with 20 desktop computers (8th gen Core i7 and Core 2 Quad processor).
2. All the PCs are supported by advanced configurations and latest software of Maple, Latex, Mathematica, MATLAB etc.

Faculty of Mathematics and Scientific Computing Department



Dr. V. K. Mishra
Professor & Head
Operations Research,
Optimization and
Inventory Control



Dr. Mohammad Hassan
Associate Professor
Fluid Dynamic,
Differential Equation,
Mathematical modelling,
Water Waves



Dr. Amit Kumar Barnwal
Assistant Professor
Differential Equation,
Numerical method
Cryptography,
Nonlinear Analysis



Dr. Harish Chandra
Assistant Professor
Algebra: Group Rings,
Solar Physics,
Cryptography



Dr. Mintu Kumar
Assistant Professor
Operations Research,
Fuzzy Reliability Theory,
Decision Making



Dr. Udai Kumar
Assistant Professor
Mathematical Biology,
Nonlinear Dynamics,
Stochastic Differential
Equation



Dr. Sajjan Lal
Assistant Professor
Numerical Analysis, Numerical
Technique, Integral Transform,
Differential Equations,
Fluid Mechanics



Dr. Anjali Upadhyay
Assistant Professor
Non-linear Analysis, Fractional
Differential Equations, Stochastic
Differential Equations,
Variational Inequalities



Dr. Vinod Baniya
Assistant Professor
Mathematical Modeling,
Epidemiology,
Nonlinear Dynamics,
Differential Equations



Dr. Km Kanta
Assistant Professor
Reliability Theory,
Operations Research,
Stochastic Process



Prof. Gopikant Goswami
Adjunct Faculty
Cosmology

Labs of Mathematics and Scientific Computing Department



Laboratory-1



Advanced Computational Lab

Laboratory-2

5 CENTRAL FACILITIES

5.1 INFORMATION TECHNOLOGY RESOURCES CENTRE (ITRC)



Information Technology Resource Centre (ITRC) was established in 2005 under world bank programme (TEQIP-I) and is unique of its kind among all state engineering universities/colleges of U.P. The objective of the center is to provide the central computing resources under one roof to students, faculty and staff with a vision to support and strengthen the teaching-learning process and research. The local area network spread in almost entire campus is being managed from this center. It remains open for 24

hours and is equipped with advanced computer networking hardware and software tools. Having around 300 computers arranged in its different labs, it provides uninterrupted high speed internet connectivity to the entire campus with leased line connection of 10 Gbps (1:1) from National Knowledge Network grid.

Facilities available at/through ITRC

- ⌘ 228 no. of computers and 8 no. of high-end servers (5 HP and 3 Blade).
- ⌘ Power backup with 2 no. of 20 KVA UPS, 6 no. of 10 KVA UPS, 2 no. of 5 KVA UPS.
- ⌘ Various design and training software tools for students and faculty members.
- ⌘ Manages 5 conference halls- Aryabhata Hall, J. C. Bose Hall, Golden Jubilee Hall, VC Conference hall and Meeting Hall in VC secretariat with advanced audio-video setups.
- ⌘ Three design labs with advanced software/hardware computing resources to cater to the needs of PG and Research students having total 70 computers.
- ⌘ Three general computing labs with 100 no. of computers for UG students.
- ⌘ One digital library exclusively for online study with 30 computers.
- ⌘ Provides internet connectivity through OFC (of about 20 kms) to academic buildings, hostels and faculty/staff residences thus covering almost entire campus.
- ⌘ Provides additional Wi-Fi connectivity in all major university buildings and their surroundings.
- ⌘ Provides connectivity to Biometric attendance devices installed in various departments and sections for online attendance.
- ⌘ Manages total 35 classrooms- 27 smart classrooms and 9 class rooms equipped with PA systems and projectors.
- ⌘ Manages Security system through CCTV Cameras installed at all prime locations of the University including class rooms, Library and Seminar/Conference Halls. Computerized Gate Pass has also been installed at university gate to further enhance the security.

5.2 CENTRAL LIBRARY

Central library has a wide collection of books and periodicals on scientific, technical and allied subjects. It operates on open access system and students are given free access to books and journals that are kept on open shelves. Total carpet area of library is 1779.426 sq. meter. It has a wide collection of Books, E-books, E-journals/Magazines & Newspapers. Total number of books including bound journals and ISI Code are 1,27,828 (One lakh twenty-seven thousand eight hundred and twenty eight).



Special features :

- ⌘ Equipped with Wi-Fi facility and CCTV surveillance.
- ⌘ Availability of OPAC (Online Public Access Catalogue).
- ⌘ Air-Conditioned E-Library cum Reading Room.
- ⌘ Remote Access (MyLoft Mob & Web App) Facility
- ⌘ Automated issue and return of books.
- ⌘ Air-conditioned Reading Room.

Membership :

- ⌘ E-Shodh Sindhu
- ⌘ Shodh Ganga
- ⌘ Shodh Gangotri
- ⌘ DELNET
- ⌘ NDLI Club
- ⌘ ONOS (One Nation One Subscription)

Books :

S.No.	Books in different sections	No. of Books	S.No.	Books in different sections	No. of Books
1.	General Section	59157	5.	Bound Journals (International & National)	10160
2.	Book Bank Section	33045	6.	Reserve Book Bank Section	8564
3.	Reference Section	8857	7.	M.B.A. Book Bank Section	3020
4.	ISI Code	5025	8.	No. Ph.D. Thesis	135

E-Books :

S.No.	Publishers	No. of E-Books
1	McGraw Hill	178
2	Springer	885
3	Pearson	782
4	New Age International	292
5	Wiley	138



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E-Journals :

S.No.	Journals	No. of Titles
1.	IEEE	170
2.	ASCE	28
3.	ASME	35
4.	Springer	1700
5.	J-Gate Science & Technology	24000
6.	GALE Info Track Pharmacy Collection	483
7.	Project Muse	731
8.	ACM Digital Library	158
9.	ACS Journals	87
10.	Lippincott Williams & Wilkins	305
11.	American Institute of Physics	28
12.	Bentham Science	118
13.	Wiley	1333
14.	Taylor and Francis Journals	2548
15.	Sage Publishing	988
16.	Oxford University Press	375
17.	Emerald Publishing	311
18.	Elsevier Science Direct	2387
19.	Cambridge University Press	442

5.3 LECTURE HALL COMPLEX

There are 03 lecture complexes with well-equipped modern facilities;

- ⌘ Pushpagiri Lecture Hall complex has 14 smart classrooms.
- ⌘ Takshila Lecture Hall complex has 14 smart classrooms.
- ⌘ Nalanda Lecture Hall complex has 06 Lecture Halls and 02 drawing halls.

Besides these, there are departmental lecture classes equipped with modern facilities and seminar hall/conference hall for different academic purposes.





5.4 MULTIPURPOSE HALL (MPH)

The air-conditioned Multipurpose Hall with a capacity of about 700 audience is used for various purposes like convocation, alumni meet, cultural fest, and indoor games.



5.5 UNIVERSITY HEALTH CENTRE

The mission of the MMMUT Health Centre is to provide students with quality primary health care and education about healthy lifestyles. This Health Centre provides a full range of primary care, treatment, and referral services, as well as related health education programs. All programs and services are aimed at maintaining the physical and emotional well-being of university students.

The Health Centre is located in front of the University Cafeteria. This well-equipped facility provides medical treatment and office consultation space for a variety of outpatient services. This Health Centre provides a variety of services as elaborated below:

Medical Clinic

The Outpatient/General Medical Clinic is staffed by physicians and nurses. Appointments may be made with a physician or nurse practitioner; walk-in patients are evaluated by nurses. Minor surgical procedures may be performed after evaluation by a physician. Proper dressing is performed afterward. Serious medical conditions and emergencies are given priority in all cases. Emergencies may be referred to the District Hospital/ Medical College or any other area hospitals as warranted.





Women's Health

The Women's Health care is provided by all-female staff including a gynecologist and a registered nurse staff with training and experience in gynecology.

Services

Treatment of women's health issues including routine gynecological examination, Pap smears, contraceptive services, emergency contraception, counseling, and routine gynecological treatment.

Men's Health

A full range of health services for male students is available through this Health Centre.

Sports Medicine

Medical services in support of the University Athletic Program are provided by an athletic medicine physician-nurse team. The services are offered in Sports Injuries as and when required.

Services :

The services provided concerning sports injuries include primary care both in and out-of-season, physiotherapy, pre-competition physical examinations, and non-operative orthopedics relating to sports injuries.



To achieve the services mentioned on the previous page, this Health Centre is well equipped with the following human resources and infrastructure:

Doctors

Allopathic Doctors :

1. Dr. A.K Pandey, MBBS, PGDMCH, M. MED (Family medicine)
2. Dr. Reena Banka, MBBS, DGO

Homeopathic Doctor :

1. Dr. Vijay Shankar Singh, BMS

Staff :

1. Sri Devendra Kumar Pandey, BPT (Physiotherapist)
2. Ms. Prem Tara (Nurse)
3. Ms. Geeta (Nurse)

Infrastructure/Facilities:

- | | |
|-----------------------------------|---|
| ⌘ A well-equipped doctor's cabin. | ⌘ An up-to-date dressing rooms. |
| ⌘ All desired medicines. | ⌘ A well-equipped physiotherapy center. |
| ⌘ Four Beds for emergency. | ⌘ An ambulance; round-the-clock availability. |

5.6 GUEST HOUSE

The University has a Guest House which has a total of six double-bed well-furnished AC rooms. The Guest House facility is available to the external examiners, special invitees/guests of the University as well as to the parents of the students. Prior booking of these rooms can be made by contacting the officer-In charge guest house. The different type of room for stay in the Guest house will be as follows:

- ⌘ Parents of Students
- ⌘ Guest of Staff Members
- ⌘ For others
- ⌘ Alumni
- ⌘ Official Guests (Members of BOM/Academic Council/Court/Finance Committee/Examination Committee/Examiners and Experts)



5.7 CANTEEN AND COFFEE HOUSE

The University has one air-conditioned Cafeteria and a Coffee Day outlet, which offers a very good canteen facility at an affordable price on the campus. It also has a University Canteen near the boy's hostel which remains operational round the clock.



5.8 BANK, POST OFFICE AND ATM

- ⌘ Fully computerized branch of State Bank of India.
- ⌘ Two ATMs and Post-Office facility inside the campus





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5.9 TRANSPORT FACILITIES

Eight University buses are available for day scholars to commute to the University and for hostellers to the city of Gorakhpur or any other nearby place. Apart from buses, the University has one mini-bus and two staff cars. Also, 02 Battery driven Auto-Rickshaws are available for the hostellers to commute from the University gate to their respective hostels.



6 TRAINING AND PLACEMENT CELL

The basic function of the Training & Placement Cell is to search for opportunities for graduate and post-graduate students at the University in various reputed organizations and industries. The Training & Placement Cell is engaged throughout the year in interactions for building up relations among universities and various reputed industries/organizations. The Cell works as a hub for the following services:

- ⌘ Training & Placement of Students.
- ⌘ Student Counselling & Career Guidance.



The Cell organizes the training and campus recruitment programs for students of all disciplines practical training for the students is arranged by the cell in consultation with and on the basis of availability of seats in different industries/organizations/firms/training centers to make the students have strong practical knowledge and to provide them to know the applications of scientific principles industrial training is essential for students as per university norms.





Almost all the eligible and interested students get selected through campus selection. The cell organizes personality development programs and Entrepreneurial development programs to inculcate the habit of learning, development of new skills, team spirit, perseverance, and tolerance for disagreement in them, to make them self-directed, self-motivated, and responsible lifelong learners enrich of vocabulary, pronunciation skills, and extempore, participation in seminars, workshops, mock interviews, and group discussion. The idea behind this is to cater to the needs of the companies that require students to have such personalities who are aware of technological development and who are well equipped to face global challenges have problem-solving capabilities and can communicate across cultures globally. For more information, please visit: <http://www.mmmut.ac.in/View Placed Student Management>

7 COUNCIL OF STUDENT ACTIVITIES

The University is strongly committed towards transforming its students into holistic professionals through various extracurricular activities and to do so, the University places special emphasis on student participation in various extra/co-curricular activities. To manage and coordinate such extracurricular activities, the University has a Council of Student Activities (CSA). A Professor level faculty member of the University heads the CSA and is assisted by two Vice Chairmen, an OSD and the Physical Training Instructor (PTI). The Council is further subdivided into various Sub Councils/Cells/ Clubs, prominent of which are the Technical Sub Council, Sports Sub Council, Cultural Sub Council, NSS, NCC etc. which keep the campus vibrant throughout the year. The Sub Councils/Cells/ Clubs are managed by a team of Faculty members and student's office bearers. Students participate in various extra/co-curricular activities at the Department and University level and earn marks/grades for ECA Courses. Besides in-house activities attracting participation of students from colleges/institutions located in different parts of the country, the University also encourages and provides limited financial support to its students to participate in national level sports/cultural/technical festivals being organized in premier institutions throughout India.

Facilities :

The Council of Students Activities (CSA) has a brand-new, state-of-the-art sports stadium named 'Shaheed Bandhu Singh Stadium'. The stadium was inaugurated in 2020 by Hon'ble Chief Minister of Uttar Pradesh Shri Yogi Adityanath and has been named after the famous revolutionary of First War of Indian Independence Late Shri Bandhu Singh. Sprawling into 12 acres of land, the stadium has both outdoor as well as indoor facilities. The stadium has a Football ground, a Hockey ground, a Cricket pitch, a grassy ground for Track & Field activities, two indoor Basketball courts, and a Pavilion with 300 seating capacity. In addition to the stadium, facilities for the following indoor/outdoor sports are also available in the University:

- ✚ **Indoor Sports :** Table Tennis, Badminton, Carrom, Chess, and Billiards.
- ✚ **Outdoor Sports :** Separate concrete courts for Skating and Tennis; Another grassy ground for Football, Kabaddi, & Volleyball.
- ✚ **Gymnasium :** Separate gymnasium for boys and girls are available which are equipped with all modern facilities.



In addition to the stadium, CSA has a fully air-conditioned auditorium ‘Multi-Purpose Hall’ (MPH) with seating capacity of 800 persons. The MPH has a 40x30 feet stage, two greenrooms, and a robust PA/audio-visual presentation system. CSA also has a Cultural Ground near the Civil Engineering Department to host open air/outdoor functions.

8 HOSTEL FACILITY

The University is residential institution with seven boys’ hostels five girls’ hostels. The hostels are well furnished with necessary amenities available with in hostel premises. The leased line Internet facility is available for 24x7 hours in every room of each hostel. Students admitted to the University hostels are provided with the necessary furniture. The students are personally responsible for upkeep of the articles issued to them by the warden in sound condition. First year students are provided with three/two-seater rooms as per the availability. Senior students are provided with double and single seated rooms depending upon availability.

- ⌘ **Boys Hostels :** Raman Bhawan, Subhash Bhawan, Visveswaraya Bhawan, Tagore Bhawan, Ambedkar Bhawan, Tilak Bhawan, Ramanujam Bhawan.
- ⌘ **Girls Hostels :** Saraswati Bhawan, Sarojani Bhawan, Kalpna Chawala Bhawan, Kasturaba Bhawan, Savitri Bai Phule Bhawan.





64 Glorious Years

9 CAMPUS LIFE AT MMMUT







APPENDIX A : CERTIFICATE FORMAT

CERTIFICATE-1 (प्रमाण पत्र-1)

अनुसूचित जाति/अनुसूचित जनजाति (UPSC/UPST/GDSC/GDST)

जिला
तहसील
आवेदन क्र.
प्रमाण पत्र क्र.

दिनांक :

प्रमाणित किया जाता है कि श्री/श्रीमती/कु.
सुपुत्र/सुपुत्री/श्री
माता का नाम
निवासी
ग्राम
तहसील
जिला

उ.प्र. राज्य की जाति के व्यक्ति हैं, जिसे संविधान (अनुसूचित जाति) आदेश, 1950 (जैसा कि समय-समय पर संशोधित हुआ है) संविधान (अनुसूचित जनजाति, उ.प्र.) आदेश, 1967 के अनुसार अनुसूचित जाति/अनुसूचित जनजाति के रूप में मान्यता दी गयी है।

श्री/श्रीमती/कु. तथा/अथवा उनका परिवार उ.प्र. के ग्राम/मोहल्ला
तहसील नगर जिला में सामान्यतः रहता है।

जिलाधिकारी/अतिरिक्त जिलाधिकारी/
सिटी मजिस्ट्रेट/परगना मजिस्ट्रेट/तहसीलदार

Note : Certificate will be accepted only in latest U.P. Government format.

CERTIFICATE-2 (प्रमाण पत्र-2)
उत्तर प्रदेश के अन्य पिछड़े वर्ग के लिए जाति प्रमाण पत्र का प्रारूप (UPBC/GDBC)

जिला दिनांक :

तहसील

आवेदन क्र.

प्रमाण पत्र क्र.

प्रमाणित किया जाता है कि श्री/श्रीमती/कु.

सुपुत्र/सुपुत्री/श्री

माता का नाम

निवासी

ग्राम

तहसील

जिला

उ.प्र. राज्य की पिछड़ी जाति के व्यक्ति हैं। यह जाति उत्तर प्रदेश लोक सेवा (अनुसूचित जातियों, अनुसूचित जनजातियों तथा अन्य पिछड़े वर्गों के लिए आरक्षण) अधिनियम 1994 (यथा संशोधित) की अनुसूची-एक के अन्तर्गत मान्यता प्राप्त है।

यह भी प्रमाणित किया जाता है कि श्री/श्रीमती/कु. पूर्वोक्त अधिनियम 1994 (यथा संशोधित) की अनुसूची-दो (जैसा कि उ.प्र. लोक सेवा) अनुसूचित जातियों, अनुसूचित जन जातियों और अन्य पिछड़े वर्गों के लिए आरक्षण (संशोधन) अधिनियम 2001 द्वारा प्रतिस्थापित किया गया है एवं जो उ.प्र. लोक सेवा (अनुसूचित जातियों, अनुसूचित जनजातियों और अन्य पिछड़े वर्गों के लिए आरक्षण) (संशोधन) अधिनियम, 2002 द्वारा संशोधित की गयी है, से आच्छादित नहीं है। इनके माता-पिता की निरन्तर तीन वर्ष की अवधि के लिए सकल वार्षिक आय आठ लाख रु. या इससे अधिक नहीं है तथा इनके पास धनकर अधिनियम, 1957 में यथाविहित छूट सीमा से अधिक सम्पत्ति भी नहीं है।

जिलाधिकारी/अतिरिक्त जिलाधिकारी/
सिटी मजिस्ट्रेट/परगना मजिस्ट्रेट/तहसीलदार

नोट : अभ्यर्थी ध्यान दें कि उ.प्र. के अन्य पिछड़े वर्ग के लिए जाति प्रमाण मार्च 31, 2026 के पश्चात का बना होना आवश्यक है क्योंकि क्रीमीलेयर के अन्तर्गत आने वाले अभ्यर्थियों को आरक्षण का लाभ अनुमन्य नहीं है।

Note : Certificate will be accepted only in latest U.P. Government format.





CERTIFICATE-3 (प्रमाण पत्र-3)

उत्तर प्रदेश सामान्य निवासी के पुत्र/पुत्री (UPGD/GDSC/GDST/GDBC)

(उस जिले के अधिकारी द्वारा प्रमाणित जिस जिले के माता/पिता निवासी है)

जिला

दिनांक :

तहसील

आवेदन क्र.

प्रमाण पत्र क्र.

सम्बन्धित लेखपाल की जांच आख्या दिनांक के आधार पर तदनुसार

प्रमाणित किया जाता है कि श्री/श्रीमती/कु.

सुपुत्र/सुपुत्री/श्री

माता का नाम

निवासी

ग्राम

तहसील

जिला

1. उत्तर प्रदेश का/की निवासी है व उसका वर्तमान पता मकान नम्बर ग्राम/मोहल्ला
तहसील जनपद उत्तर प्रदेश है।

2. उपर्युक्त की पुष्टि प्रारूप-1 में आवेदन एवं सत्यापनकर्ता द्वारा उपलब्ध कराई गई सूचना तथा इससे संतुष्ट हो जाने के उपरान्त
अधोहस्ताक्षरी द्वारा उत्तर प्रदेश के इस जनपद का सामान्य निवासी होने विषयक प्रमाण पत्र निर्गत किया जा रहा है।

जिलाधिकारी/अतिरिक्त जिलाधिकारी/
सिटी मजिस्ट्रेट/परगना मजिस्ट्रेट/तहसीलदार

Note : Certificate will be accepted only in latest Government format.

CERTIFICATE-4 (प्रमाण पत्र-4)

(Sub-Category UPFF)

उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी के आश्रितों और भूतपूर्व सैनिकों के लिए आरक्षण) अधिनियम, 1993 के अनुसार स्वतन्त्रता संग्राम सेनानी के आश्रित के प्रमाणपत्र का प्रपत्र

प्रमाणित किया जाता है कि श्री/श्रीमती (स्वतंत्रता संग्राम सेनानी का नाम)
 निवासी ग्राम तहसील नगर
 जिला उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानी के आश्रितों और भूतपूर्व सैनिकों के लिए आरक्षण) अधिनियम 1993 के अनुसार स्वतन्त्रता संग्राम सेनानी हैं और श्री/श्रीमती/कु. (आश्रित अभ्यर्थी का नाम) पुत्र/पुत्री/पौत्र/अविवाहित पौत्री उपरांकित अधिनियम, 1993 के ही प्रावधानों के अनुसार उक्त श्री/श्रीमती (स्वतन्त्रता संग्राम सेनानी) के आश्रित हैं।

दिनांक

हस्ताक्षर

स्थान

पूरा नाम एवं पदनाम

मुहर

(जिला मजिस्ट्रेट की सील)

Note : Proforma of certificate may be changed according to latest Govt. order.



CERTIFICATE-5 (प्रमाण पत्र-5)

उत्तर प्रदेश/सेनादल (Sub-Category UPAF)

(अंतिम यूनिट के आफिसर कमान्डिंग/जिला सैनिक कल्याण बोर्ड द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के पिता अथवा माता का नाम)
निवासी गाँव/शहर तहसील जिला
उत्तर प्रदेश, के दिनांक को सेवानिवृत्त (Superannuated) युद्ध में मारे गये/अपंग हो गये/उत्तर प्रदेश में वर्तमान
में तैनात है। वे भारतीय थलसेना/जलसेना/वायुसेना के स्थान दिनांक से
दिनांक तक कार्यरत थे/हैं। अभ्यर्थी Department of Ex-Servicemen Welfare, Ministry of Defence,
Government of India द्वारा अधिसूचित प्राथमिकताओं में से प्राथमिकता नंबर (Please enter a valid priority number applicable to
this candidates per Govt. order No. F.No.6(1)/2017/D(Res.II) dated November 30, 2017)
(केवल शब्दों में/only in word) के अंतर्गत अर्ह है।

दिनांक

स्थान

यूनिट कमान्डिंग आफिसर के हस्ताक्षर

नाम

मुहर

(जिला मजिस्ट्रेट द्वारा प्रमाणित)

यह प्रमाणित किया जाता है कि श्री/कु. (अभ्यर्थी) निवासी उत्तर
प्रदेश गाँव/शहर तहसील जिला
उपरोक्त सेना दल के सेवानिवृत्त (Superannuated) युद्ध में मारे गये या अपंग हो गये कर्मचारी जो उत्तर प्रदेश के स्थायी निवासी हैं/थे,
के पुत्र/पुत्री हैं अथवा प्रवेश परीक्षा की तिथि को उत्तर प्रदेश भारतीय थलसेना/जलसेना/वायुसेना में कार्यरत थे/हैं।

दिनांक

स्थान

मोहर

हस्ताक्षर

नाम

CERTIFICATE-6 (प्रमाण पत्र-6)

(Sub-Category UPHC) काउन्सिलिंग मे जमा करने हेतु
शारीरिक विकलांग के अधिमान के लिए प्रमाणपत्र (मुख्य चिकित्सा अधिकारी द्वारा प्रमाणित)

1. यह प्रमाणित किया जाता है कि श्री/कु. (अभ्यर्थी)
 पुत्र/पुत्री श्री (पिता का नाम) नीचे लिखे कारणों से शारीरिक रूप से विकलांग हैं।
 (केवल मुख्य चिकित्सा अधिकारी ही कारण लिखें)

2. अभ्यर्थी की उपरोक्त विकलांगता को निम्न प्रकार की विकलांगता की श्रेणी में रखा जा सकता है।

(कृपया ✓ का निशान लगायें)

Type - I: Minimum 40% permanent Visual impairment	
Type-II: Minimum 40% permanent Locomotors disability	
Type-III: Minimum 40% permanent Speech Hearing impairment	

3 यह भी प्रमाणित किया जाता है कि उपरोक्त विकलांग स्थिति अभ्यर्थी के इन्जीनियरिंग शिक्षा प्राप्त करने में बाधक नहीं होगी।

अभ्यर्थी के हस्ताक्षर

नाम

दिनांक

चिकित्सा अधिकारी के हस्ताक्षर

नाम

मुहर



CERTIFICATE-7 (प्रमाण पत्र-7)

CHARACTER CERTIFICATE FROM THE HEAD OF THE INSTITUTION LAST ATTENDED

This is to certify that Sri/Km. _____
has been a bonafide student of _____ from _____
to _____ and has passed/appeared at the _____
examination in the year _____

Proctorial reports:

- | | | |
|---|--|--------|
| 1 | Has he/she involved himself/herself in any act of indiscipline? | Yes/No |
| 2 | Has he/she been warned, Fined or punished for any act of indiscipline? | Yes/No |
| 3 | Has he/she been restricted or expelled from Hostel of College for any reason? | Yes/No |
| 4 | Has he/she been involved in any act of indiscipline outside the College campus like group clashes or faction fights etc. | Yes/No |
| 5 | Has he/she been addicted to drugs or intoxicants? | Yes/No |

General remarks (Please state your assessment of the student)

Date:

Signature

Name

Designation

CERTIFICATE-8 (प्रमाण पत्र-8)**FORMAT FOR MEDICAL CERTIFICATE**

(To be obtained from a Chief Medical Officer or Medical Officer of MMUT, Gorakhpur)

This certificate has to be submitted at the time of admission in the University

Name of Candidate:		Age:	Sex:	Weightage:
Roll No.:		Category:		
Father's Name :		Subcategory and Rank Position:		
(To be filled in by the Candidate)				
L.T.	M.I.	VISION	Colour Vision:	
Height	Weight		Without glass: With glass:	
Chest	Abdomen			
History	Operation	Koch's	Colic's	B.P.
	Seizures	Asthma	Piles	Diabetes
EXAMINATION	Pulse	Tonsil	DNS	Hernia
	Pallor	L.Nodes	CSOM	Hydrocele
	Cardiovascular	CNS		
	Respiratory	GIT		
	Genitourinary	Others		
Is the candidate physically handicapped/Disabled : (Please tick) Yes/No				
If yes, type of handicap/disability: ☐ Type-I: Minimum 40% permanent Visual impairment				
(Please tick ✓ the type of handicap/disability) ☐ Type-II: Minimum 40% permanent Locomotor disability				
☐ Type-III: Minimum 40% permanent speech and Hearing impairment				
Any other finding:				
Certified that the candidate is physically fit/unfit/temporally disqualified to pursue engineering studies				

Signature of Candidate

Signature of the issuing Medical Officer (with Official stamp)

CERTIFICATE-9 (प्रमाण पत्र-9)**UNDERTAKING BY CANDIDATE FOR MEDICAL FITNESS**

I certify that I have no such physical handicap/disability which would hinder the pursuit of studies in the Programs in which I am seeking admission. If at any stage it is found that I have a physical handicap/ disability which would hinder the pursuit of studies in the Programs in which I am seeking admission then my admission will be liable to be cancelled. I will produce medical fitness certificate from a C.M.O./C.M.S. at the time of my joining the University.

Dated:

Counter Signed by Father/Guardian

Signature of the Candidate



CERTIFICATE-10 (प्रमाण पत्र-10)

अखिल भारतीय सेवा के उ.प्र. कैंडर के अधिकारियों/कर्मचारियों हेतु

प्रमाणित किया जाता है कि श्री/श्रीमती (अभ्यर्थी के माता/पिता का नाम)
पद नाम विभाग का नाम कैंडर संख्या
अखिल भारतीय सेवा के उ.प्र. कैंडर के अधिकारी/कर्मचारी है तथा वर्तमान में इस कार्यालय में कार्यरत हैं। यह प्रमाणपत्र इनके पुत्र/पुत्री
(अभ्यर्थी का नाम) को मदन मोहन मालवीय प्रौद्योगिकी विश्वविद्यालय में प्रवेश हेतु
प्रदान किया जाता है।

दिनांक

विभागाध्यक्ष/कार्यालयाध्यक्ष का हस्ताक्षर

नाम एवं पद नाम

मुहर

CERTIFICATE-11 (प्रमाण पत्र-11)

(Income Certificate) (काउन्सिलिंग में जमा करने हेतु)

क्षेत्रीय भूलेख निरीक्षक तथा लेखपाल की जांचरिपोर्ट के आधार पर प्रमाणित किया जाता है कि
(आवेदक के अभिभावक/माता/पिता का नाम) सुपुत्र
निवासी/ग्राम परगना तहसील
नगर जिला राज्य
के स्वयं की मासिक आय रुपये तथा वार्षिक आय रुपये है।
लेखपाल की रिपोर्ट के अनुसार आय का स्रोत है।

स्थान

तहसीलदार

दिनांक

मुहर

नोट : अभ्यर्थी ध्यान दे कि उ.प्र. के आर्थिक रूप से कमजोर अभ्यर्थियों के लिए प्रमाणपत्र मार्च 31, 2026 के पश्चात का बना हुआ होना आवश्यक है।

कार्यालय-रूप-संख्या-3/20

कार्यालय का

आर्थिक रूप से कमजोर वर्ग के

प्रमाण-पत्र संख्या-

वित्त

प्रमाणित किया जाता

पुत्र/पति/पुत्री

पोस्ट ऑफिस

तहसील

पिन कोड

कमजोर वर्ग के सदस्य हैं, क्योंकि

लाख (आठ लाख रुपये मात्र) से कम

नहीं है-

I 5 (पाँच) एकड़ वृ

II एक हजार वर्ग फी

III अधिसूचित नगर

भूखण्ड।

IV अधिसूचित नगर

भूखण्ड।

2. श्री/श्रीमती/कुमार

सदस्य हैं, जो अनुसूचित जाति, अनुस

आवेदन का परम्परेट साईन का
अतिप्रमाणित प्रमाण

कार्यालय-जाल संख्या-3/2021

आर्थिक रूप

मैं
 ग्राम/कस्बा
 थाना
 जिला
 प्रमाण पत्र हेतु आवेदन दिया है, एत
 1. मैं
 अधिसूचित अनुसूचित जाति, अनुसू
 2. मेरे परिवार की
 रु (₹)
 3. मेरे परिवार के
 परिसम्पत्ति नहीं है।

कई स्थानों पर स्थित परिस
 रूप से कमजोर वर्ग के दायरे में आ
 4. मैं घोषणा करता/र
 निम्नलिखित में से किसी भी सीमा
 I. 5 (पाँच) एकड़ कृ
 II. एक हजार वर्ग फी
 III. अधिसूचित नगरपा
 भूखण्ड।
 IV. अधिसूचित नगरपा
 मैं प्रमाणित करता/करती ह
 और मैं आर्थिक रूप से कमजोर वर्ग
 मेरे द्वारा दी गई जानकारी असत्य
 आवेदन पत्र के आधार पर दिये गये
 पदों में प्राप्त की गई निशुक्ति निरस्त
 अन्य सुविधा/लाभ प्राप्त किया गया
 के अधीन मेरे विरुद्ध की जाने वाली
 नोट:- जो लागू नहीं हो उसे काट दें।

स्थान :-

दिनांक :-

APPENDIX B : CERTIFICATE FORMAT FOR NRI CANDIDATE

FORMAT FOR NRI CERTIFICATE FROM EMBASSY

(In the Letter head of the Embassy office)

No.

Dated :

CERTIFICATE

This is to certify that (Sponsor's name)
holder of Indian passport no. dated issued at
(Place of issue) is residing in this country since He/She is a
Non-Resident Indian. This Certificate is being issued upon his/her request for the purpose of admission at Madan
Mohan Malaviya University of Technology, Gorakhpur-273010 (UP), India

(Signature, Designation & Seal of the issuing authority)

Note :

1. The NRI Certificate given by embassy in a different format is also accepted.
2. Affidavit of NRI Certificate is not accepted.

FORMAT FOR CERTIFICATE FROM THE EMPLOYER

(In the Letter head of the Company / Organization)

No.

Dated :

This is to certify that (Sponsor's name)
holder of Indian passport no. dated issued at
(Place of issue) is an employee of our company/organization
(date of joining) in the position of (designation).
..... and drawing a monthly salary of This Certificate is
being issued upon his/her request for the purpose of admission at Madan Mohan Malaviya University of
Technology, Gorakhpur-273010 (UP), India.

(Signature, Designation & Seal of the issuing authority)



UNDERTAKING BY CANDIDATE
(Whose Result of Qualifying Examination is awaited)

Date :

I son/daughter of
..... seeking admission in hereby
submit my undertaking that I will produce/submit the evidence of having passed the qualifying examination
securing the minimum passing marks as prescribed by the University by October 31, 2026. I am fully aware that if I
fail to submit the required document on or before October 31, 2026, my admission will be cancelled and no claim to
refund the fee will be made by me whatsoever the reason may be.

(Signature of the parents/guardian

(Signature of the candidate)

Name :

Name :

Date :

CMAT/GPAT/GATE/CUET (PG)/ :

MET Registration No.

Contact No. :

Contact No. :

APPENDIX-C

SYLLABUS FOR THE MALAVIYA ENTRANCE TEST (MET)-2026

M.TECH. CIVIL ENGINEERING

It's a comprehensive list that covers core engineering principles and advanced mathematics. Here is a breakdown of the key sections visible:

Section 1: Engineering Mathematics

- **Linear Algebra:** Matrix algebra, systems of linear equations, and Eigenvalues/vectors.
- **Calculus:** Functions, limits, derivatives, integrals, and vector identities (Gradient, Divergence, Curl).
- **Differential Equations:** Covers both Ordinary (ODE) and Partial (PDE) equations.
- **Probability & Statistics:** Sampling, distributions (Poisson, Normal), and linear regression.
- **Numerical Methods:** Error analysis and methods for integration/differential equations.

Section 2: Structural Engineering

- **Mechanics:** Engineering mechanics (forces, SDOF systems) and Solid mechanics (bending, stress/strain).
- **Structural Analysis:** Methods for determinate/indeterminate structures and influence lines.
- **Materials & Management:** Construction materials (steel, concrete) and project management (PERT/CPM).
- **Design:** Concrete structures (working stress/limit state) and Steel structures (tension/compression members, connections).

Section 3: Geotechnical Engineering

- **Soil Mechanics:** Index properties, classification, permeability, and seepage. nets, uplift pressure, piping, capillarity, seepage force; Principle of effective stress and quicksand condition; Compaction of soils; One-dimensional consolidation, time rate of consolidation; Shear

Strength, Mohr's circle, effective and total shear strength parameters, Stress-Strain characteristics of clays and sand; Stress paths.

- **Foundation Engineering:** Covers sub-surface investigations (drilling, sampling, tests like SPT/CPT), earth pressure theories (Rankine, Coulomb), and slope stability methods like Bishop's [1]. Includes soil stress distribution (Boussinesq's theory), bearing capacity theories (Terzaghi, Meyerhoff), and analysis of shallow/deep foundations (raft, piles) including settlement, lateral load, and negative skin friction [1].

Section 4: Water Resources Engineering

- **Fluid Mechanics:** Properties of fluids, fluid statics; Continuity, momentum and energy equations and their applications; Potential flow, laminar and turbulent flow; Flow in pipes, pipe networks; Concept of boundary layer and its growth; Concept of lift and drag.
- **Hydraulics:** Forces on immersed bodies; Flow measurement in channels and pipes; Dimensional analysis and hydraulic similitude; Channel Hydraulics - Energy-depth relationships, specific energy, critical flow, hydraulic jump, uniform flow, gradually varied flow and water surface profiles.
- **Hydrology:** Hydrologic cycle, precipitation, evaporation, evapo-transpiration, watershed, infiltration, unit hydrographs, hydrograph analysis, reservoir capacity, flood estimation and routing, surface run-off models, ground water hydrology - steady state well hydraulics and aquifers; Application of Darcy's Law.
- **Irrigation:** Types of irrigation systems and methods; Crop water requirements - Duty, delta, evapo-transpiration; Gravity Dams and Spillways; Lined and unlined canals, Design of weirs on permeable foundation; cross drainage structures.



Section 5: Environmental Engineering

- **Water and Waste Water Quality and Treatment:** Basics of water quality standards - Physical, chemical and biological parameters; Water quality index; Unit processes and operations; Water requirement; Water distribution system; Drinking water treatment.
- **Sewerage System:** Sewerage system design, quantity of domestic wastewater, primary and secondary treatment. Effluent discharge standards; Sludge disposal; Reuse of treated sewage for different applications.
- **Air Pollution:** Types of pollutants, their sources and impacts, air pollution control, air quality standards, Air quality Index and limits.
- **Municipal Solid Wastes:** Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/ recycle, energy recovery, treatment and disposal).

Section 6: Transportation Engineering

- **Transportation Infrastructure:** Geometric design of highways - cross-sectional elements, sight distances, horizontal and vertical alignments.
- **Railway Track:** Geometric design of railway Track - Speed and Cant.
- **Airport:** Concept of airport runway length, calculations and corrections; taxiway and exit taxiway design.
- **Highway Pavements:** Highway materials - desirable properties and tests; Desirable properties of bituminous paving mixes; Design factors for flexible and rigid pavements; Design of flexible and rigid pavement using IRC codes.
- **Traffic Engineering:** Traffic studies on flow and speed, peak hour factor, accident study, statistical analysis of traffic data; Microscopic and macroscopic parameters of traffic flow, fundamental relationships; Traffic signs; Signal design by Webster's method; Types of intersections; Highway capacity.

Section 7: Geomatics Engineering

- **Surveying Principles:** Principles of surveying; Errors and their adjustment; Maps - scale, coordinate system; Distance and angle measurement - Leveling and trigonometric leveling; Traversing and triangulation survey; Total station; Horizontal and vertical curves.
- **Remote Sensing:** Photogrammetry and Remote Sensing - Scale, flying height; Basics of remote sensing and GIS.

M.TECH. ELECTRICAL ENGINEERING

Measurements and Instrumentation

- **Basics:** SI units, standards (R, L, C, voltage, current and frequency), systematic and random errors in measurement, expression of uncertainty - accuracy and precision, propagation of errors, linear and weighted regression.
- **Bridges:** Wheatstone, Kelvin, Megohm, Maxwell, Anderson, Schering and Wien for measurement of R, L, C and frequency, Q-meter.
- **Ac/Dc Measurements:** Measurement of voltage, current and power in single and three phase circuits; ac and dc current probes; true rms meters, voltage and current scaling, instrument transformers, timer/counter, time, phase and frequency measurements, digital voltmeter, digital multimeter; oscilloscope, shielding and grounding.
- **Sensors:** Resistive-, capacitive-, inductive-, piezoelectric-, Hall effect sensors and associated signal conditioning circuits; transducers for industrial instrumentation: displacement (linear and angular), velocity, acceleration, force, torque, vibration, shock, pressure (including low pressure), flow (variable head, variable area, electromagnetic, ultrasonic, turbine and open channel flow meters) temperature (thermocouple, bolometer, RTD (3/4 wire), thermistor, pyrometer and semiconductor); liquid level, pH, conductivity and viscosity measurement; 4-20 mA two-wire transmitter.

Control and Automation

- **System Modeling:** Mathematical modeling and representation of systems, Feedback principles, Block Diagram and signal flow graphs, transient response, steady-state-errors.
- **Stability & Frequency Analysis:** Bode plot, phase and gain margins, Routh and Nyquist criteria, root loci, design of lead, lag and lead-lag compensators.
- **State-Space & Components:** State-space representation of systems; time-delay systems; mechanical, hydraulic and pneumatic system components, synchro pair, servo and stepper motors, servo valves.
- **Controllers:** On-off, P, PI, PID, cascade, feedforward, and ratio controllers, tuning of PID controllers and sizing of control valves. State space model, Solution of state equations of LTI systems.

Electrical Circuits

- **Circuit Basics:** Voltage and current sources: independent, dependent, ideal and practical; v-i relationships of resistor, inductor, mutual inductance and capacitor; transient analysis of RLC circuits with dc excitation. Kirchhoff's laws, mesh and nodal analysis, superposition, Thevenin, Norton, maximum power transfer and reciprocity theorems.
- **AC Circuits:** Peak-, average- and rms values of ac quantities; apparent-, active- and reactive powers; phasor analysis, impedance and admittance; series and parallel resonance, locus diagrams, realization of basic filters with R, L and C elements, transient analysis of RLC circuits with ac excitation.
- **Network Parameters:** One-port and two-port networks, driving point impedance and admittance, open-, and short circuit parameters.

Electrical Machines

- **Transformers & Induction Motors:** Single phase transformer: equivalent circuit, phasor diagram, open circuit and short circuit tests, regulation and efficiency; Three phase induction motors: principle of operation, types, performance, torque-speed

characteristics, no-load and blocked rotor tests, equivalent circuit, starting and speed control; Types of losses and efficiency calculations of electric machines.

- **Synchronous Motors:** Operating principle of single-phase induction motors; Synchronous machines: cylindrical and salient pole machines, performance and characteristics, regulation and parallel operation of generators, starting of synchronous motors; Types of losses and efficiency calculations of electric machines.

Analog and Digital Electronics

- **Analog Circuits:** Simple diode circuits: clipping, clamping, rectifiers; Amplifiers: biasing, equivalent circuit and frequency response; oscillators and feedback amplifiers; operational amplifiers: characteristics and applications; single stage active filters, Active Filters: Sallen Key, Butterworth, VCOs and timers.
- **Digital Circuits:** Combinatorial and sequential logic circuits, multiplexers, demultiplexers, Schmitt triggers, sample and hold circuits, A/D and D/A converters and sequential logic circuits, multiplexers, demultiplexers, Schmitt triggers, sample and hold circuits, A/D and D/A converters.
- **Power System:** Key concepts include AC/DC generation and transmission, transmission line modeling, economic load dispatch, and reactive power compensation. Key analysis methods cover per-unit systems, bus admittance matrices, and load flow (Gauss-Seidel/Newton-Raphson). Protection systems (over-current, differential, distance) and circuit breakers are included, along with fault analysis, stability concepts (equal area criterion), and system control.
 - *Generation & Transmission:* Basic concepts of electrical power generation, ac and dc transmission concepts.
 - *Modeling & Dispatch:* Models and performance of transmission lines and cables, Economic Load Dispatch (with and without considering transmission losses).
 - *Grid Parameters:* Series and shunt compen-



sation, Electric field distribution and insulators, Distribution systems, Per-unit quantities.

- o *Load Flow & Control*: Bus admittance matrix, Gauss-Seidel and Newton-Raphson load flow methods, Voltage and Frequency control, Power factor correction.
- o *Protection & Stability*: Symmetrical components, Symmetrical and unsymmetrical fault analysis, Principles of over-current, differential, directional and distance protection; Circuit breakers, System stability concepts, Equal area criterion.

● **Power Electronics:**

- o *Devices*: Static V-I characteristics and firing/gating circuits for Thyristor, MOSFET, IGBT.
- o *Converters*: DC to DC conversion: Buck, Boost and Buck-Boost Converters; Single and three-phase configuration of uncontrolled rectifiers.
- o *Advanced Topologies*: Voltage and Current commutated Thyristor based converters; Bidirectional ac to dc voltage source converters.
- o *Harmonics*: Magnitude and Phase of line current harmonics for uncontrolled and thyristor based converters; Power factor and Distortion Factor of ac to dc converters.
- o *Inverters*: Single-phase and three-phase voltage and current source inverters, sinusoidal pulse width modulation.

M.TECH. MECHANICAL ENGINEERING

Section 1: Applied Mechanics and Design

● **Engineering Mechanics:**

- o Free-body diagrams and equilibrium.
- o Friction and its applications including rolling friction, belt-pulley, brakes, clutches, screw jack, wedge, vehicles.
- o Trusses and frames; virtual work.
- o Kinematics and dynamics of rigid bodies in plane motion.

- o Impulse and momentum (linear and angular) and energy formulations; Lagrange's equation.

● **Mechanics of Materials:**

- o Stress and strain, elastic constants, Poisson's ratio.
- o Mohr's circle for plane stress and plane strain; thin cylinders.
- o Shear force and bending moment diagrams; bending and shear stresses; shear center.
- o Deflection of beams; torsion of circular shafts; Euler's theory of columns; energy methods.
- o Thermal stresses; strain gauges and rosettes.
- o Testing materials with UTM, hardness, and impact testing.

● **Theory of Machines:**

- o Displacement, velocity, and acceleration analysis of plane mechanisms.
- o Dynamic analysis of linkages.
- o Cams, gears, and gear trains.
- o Flywheels and governors.
- o Balancing of reciprocating and rotating masses; gyroscope.

● **Vibrations:**

- o Free and forced vibration of single degree of freedom systems.
- o Effect of damping; vibration isolation.
- o Resonance; critical speeds of shafts.

● **Machine Design:**

- o Design for static and dynamic loading.
- o Failure theories, fatigue strength, and the S-N diagram.
- o Design of machine elements: bolted, riveted, and welded joints.
- o Shafts, gears, rolling and sliding contact bearings, brakes, clutches, springs.

Section 2:

Fluid Mechanics and Thermal Sciences

● **Fluid Mechanics:**

- o Fluid properties, statics, forces on submerged

bodies, stability of floating bodies.

- o Control-volume analysis of mass, momentum, and energy.
- o Fluid acceleration; differential equations of continuity and momentum.
- o Bernoulli's equation; dimensional analysis.
- o Viscous flow of incompressible fluids, boundary layer, elementary turbulent flow.
- o Flow through pipes, head losses, bends and fittings; compressible fluid flow basics.
- **Heat-Transfer:**
 - o Modes of heat transfer; one dimensional heat conduction, resistance concept, electrical analogy.
 - o Heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts.
 - o Thermal boundary layer, dimensionless parameters in free and forced convective heat transfer.
 - o Heat transfer correlations for flow over flat plates and through pipes, effect of turbulence.
 - o Heat exchanger performance, LMTD and NTU methods; radiative... (text cuts off)

Heat transfer, Stefan-Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis

Thermodynamics: Thermodynamic systems and processes; properties of pure substances, behavior of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.

Applications: Power Engineering: Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. I.C. Engines: Air-standard Otto, Diesel, and dual cycles. Refrigeration and air-conditioning: Vapour and gas refrigeration and heat pump cycles, properties of moist air, psychrometric chart, basic psychrometric processes. Turbo-machinery:

Impulse and reaction principles, velocity diagrams, Pelton-wheel, Francis, and Kaplan turbines; steam and gas turbines.

Section 3: Materials, Manufacturing, and Industrial Engineering

- **Engineering Materials:** Properties, structure, phase diagrams, heat treatment, and stress-strain behavior.
- **Casting, Forming, and Joining:** Casting methods, pattern/mould design, solidification; metal forming (forging, rolling, extrusion, sheet metal) and powder metallurgy; welding, brazing, and soldering techniques.
- **Machining and Tool Operations:** Machining mechanics, tool geometry/life, economics, non-traditional methods, jigs/fixtures, and NC/CNC programming.
- **Metrology and Inspection:** Tolerances, fits, measurements (linear, angular, surface), and CMM concepts.
- **Computer Integrated Manufacturing:** CAD/CAM, integration tools, and additive manufacturing.
- **Production Planning and Control:** Forecasting, scheduling, MRP, and lean manufacturing principles.
- **Inventory Control:** Deterministic models and safety stock systems.
- **Operations Research:** Linear programming, network models (PERT/CPM), and queuing theory.

Welding, spray painting and finish coating, Parts Mating & Parts Joining Operations. Types of Robot Manipulators, Application of Robot Manipulators, Construction of a Robot Manipulator.

Robot Sensors and Robot Safety: Sensors in Robotics, classification of Robotic sensors, Acoustic sensors, Optical Sensors, Pneumatic Sensors, Touch Sensors, Force Sensors, Force Sensing Wrist and its applications. Robot Planning and Installation, Robot Safety, Need of Robot Safety.



M.TECH. ELECTRONICS AND COMMUNICATION ENGINEERING

Section 1: Networks, Signals and Systems

- **Circuit Analysis:** Node and mesh analysis, superposition, Thevenin's theorem, Norton's theorem, reciprocity. Sinusoidal steady state analysis: phasors, complex power, maximum power transfer.
- **Time & Frequency Domain:** Time and frequency domain analysis of linear circuits: RL, RC and RLC circuits, solution of network equations using Laplace transform. Linear 2-port network parameters, wye-delta transformation.
- **Signals & Systems:** Continuous-time signals: Fourier series and Fourier transform, sampling theorem and applications. Discrete-time signals: DTFT, DFT, z-transform, discrete-time processing of continuous-time signals. LTI systems: definition and properties, causality, stability, impulse response, convolution, poles and zeroes, frequency response, group delay, phase delay.

Section 2: Electronic Devices

- **Semiconductor Physics:** Energy bands in intrinsic and extrinsic semiconductors, equilibrium carrier concentration, direct and indirect band-gap semiconductors.
- **Carrier Transport:** Diffusion current, drift current, mobility and resistivity, generation and recombination of carriers, Poisson and continuity equations.
- **Devices:** P-N junction, Zener diode, BJT, MOS capacitor, MOSFET, LED, photo diode and solar cell.

Section 3: Analog Circuits

- **Diode & BJT/MOSFET Circuits:** Diode circuits: clipping, clamping and rectifiers. BJT and MOSFET amplifiers: biasing, ac coupling, small signal analysis, frequency response.
- **Amplifiers & Op-amps:** Current mirrors and differential amplifiers. Op-amp circuits: Amplifiers,

summers, differentiators, integrators, active filters, Schmitt triggers and oscillators.

Section 4: Digital Circuits

- **Combinatorial Circuits:** Number representations: binary, integer and floating-point numbers. Combinatorial circuits: Boolean algebra, minimization of functions using Boolean identities and Karnaugh map, logic gates and their static CMOS implementations, arithmetic circuits, code converters, multiplexers, decoders.
- **Sequential & Memories:** Sequential circuits: latches and flip-flops, counters, shift-registers, finite state machines, propagation delay, setup and hold time, critical path delay. Data converters: sample and hold circuits, ADCs and DACs. Semiconductor memories: ROM, SRAM, DRAM.
- **Computer Organization:** Machine instructions and addressing modes, ALU, data-path and control unit, instruction pipelining.

Section 5: Control Systems

- **System Basics:** Basic control system components; Feedback principle; Transfer function; Block diagram representation; Signal flow graph; Transient and steady-state analysis of LTI systems.
- **Frequency & Stability:** Frequency response; Routh-Hurwitz and Nyquist stability criteria; Bode and root-locus plots; Lag, lead and lag-lead compensation; State variable model and solution of state equation of LTI systems.

Section 6: Communications

- **Random Processes:** Random processes: auto correlation and power spectral density, properties of white noise, filtering of random signals through LTI systems.
- **Analog & Information Theory:** Analog communications: amplitude modulation and demodulation, angle modulation and demodulation, spectra of AM and FM, super heterodyne receivers. Information theory: entropy, mutual information, and channel capacity theorem.

- **Digital Communications:** Digital communications: PCM, DPCM, digital modulation schemes.

M.TECH. COMPUTER SCIENCE AND ENGINEERING / INFORMATION TECHNOLOGY

Section 1: Engineering Mathematics

Discrete Mathematics: Propositional and first order logic. Sets, relations, functions, partial orders and lattices. Monoids, Groups. Graphs: connectivity, matching, coloring. Combinatorics: counting, recurrence relations, generating functions.

Linear Algebra: Matrices, determinants, system of linear equations, eigenvalues and eigenvectors, LU decomposition. Calculus: Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration.

Probability and Statistics: Random variables. Uniform, normal, exponential, poisson and binomial distributions. Mean, median, mode and standard deviation. Conditional probability and Bayes theorem.

Information Technology

Section 2: Digital Logic Boolean algebra. Combinational and sequential circuits. Minimization. Number representations and computer arithmetic (fixed and floating point).

Section 3: Computer Organization and Architecture Machine instructions and addressing modes. ALU, data path and control unit. Instruction pipelining, pipeline hazards. Memory hierarchy: cache, main memory and secondary storage; I/O interface (interrupt and DMA mode).

Section 4: Programming and Data Structures Programming in C. Recursion. Arrays, stacks, queues, linked lists, trees, binary search trees, binary heaps, graphs.

Section 5: Algorithms Searching, sorting, hashing. Asymptotic worst case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide and conquer. Graph traversals,

minimum spanning trees, shortest paths.

Section 6: Theory of Computation Regular expressions and finite automata. Context-free grammars and push-down automata. Regular and context-free languages, pumping lemma. Turing machines and undecidability.

Section 7: Compiler Design Lexical analysis, parsing, syntax-directed translation. Runtime environments. Intermediate code generation. Local optimisation, Data flow analyses: constant propagation, liveness analysis, common sub expression elimination.

Section 8: Operating System System calls, processes, threads, inter process communication, concurrency and synchronization. Deadlock. CPU and I/O scheduling. Memory management and virtual memory. File systems.

Section 9: Databases ER model. Relational model: relational algebra, tuple calculus, SQL. Integrity constraints, normal forms. File organization, indexing (e.g., B and B+ trees). Transactions and concurrency control.

Section 10: Computer Networks Concept of layering: OSI and TCP/IP Protocol Stacks; Basics of packet, circuit and virtual circuit-switching; Data link layer: framing, error detection, Medium Access Control, Ethernet bridging; Routing protocols: shortest path, flooding, distance vector and link state routing; Fragmentation and IP addressing, IPv4, CIDR notation, Basics of IP support protocols (ARP, DHCP, ICMP), Network Address Translation (NAT); Transport layer: flow control and congestion control, UDP, TCP, sockets; Application layer protocols: DNS, SMTP, HTTP, FTP, Email.

M. TECH. CHEMICAL ENGINEERING

Process Calculations

Steady and unsteady state mass and energy balances including multiphase, multi-component, reacting and non-reacting systems. Use of tie components; recycle, bypass and purge calculations; Gibb's phase rule and degree of freedom analysis.



Fluid Mechanics

Fluid statics, surface tension, Newtonian and non-Newtonian fluids, transport properties, shell balances including differential form of Bernoulli equation and energy balance, equation of continuity, equation of motion, equation of mechanical energy, Macroscopic friction factors, dimensional analysis and similitude, flow through pipeline systems, velocity profiles, flow meters, pumps and compressors, elementary boundary layer theory, flow past immersed bodies including packed and fluidized beds, Turbulent flow: fluctuating velocity, universal velocity profile and pressure drop.

Mechanical Operations

Particle size and shape, particle size distribution, size reduction and classification of solid particles; free and hindered settling; centrifuge and cyclones; thickening and classification, filtration, agitation and mixing; conveying of solids.

Heat Transfer

Equation of energy, steady and unsteady heat conduction, convection and radiation, thermal boundary layer and heat transfer coefficients, boiling, condensation and evaporation; types of heat exchangers and evaporators and their process calculations; design of double pipe, shell and tube heat exchangers, and single and multiple effect evaporators.

Mass Transfer

Fick's laws, molecular diffusion in fluids, mass transfer coefficients, film, penetration and surface renewal theories; momentum, heat and mass transfer analogies; stage-wise and continuous contacting and stage efficiencies; HTU & NTU concepts; design and operation of equipment for distillation, absorption, leaching, liquid-liquid extraction, drying, humidification, dehumidification and adsorption, membrane separations (micro-filtration, ultra-filtration, nano-filtration and reverse osmosis).

Chemical Reaction Engineering

Theories of reaction rates; kinetics of homogeneous reactions, interpretation of kinetic data, single and

multiple reactions in ideal reactors, kinetics of enzyme reactions (Michaelis-Menten and Monod models), non-ideal reactors; residence time distribution, single parameter model; non-isothermal reactors; kinetics of heterogeneous catalytic reactions; diffusion effects in catalysis; rate and performance equations for catalyst deactivation

Instrumentation and Process Control

Measurement of process variables; sensors and transducers; P&ID equipment symbols; process modeling and linearization, transfer functions and dynamic responses of various systems, systems with inverse response, process reaction curve, controller modes (P, PI, and PID); control valves; transducer dynamics; analysis of closed loop systems including stability, frequency response, controller tuning, cascade.

APTITUDE TEST FOR MCA

(i) Mathematics

Modern Algebra: Idempotent law, identities, complementary laws, Demorgan's theorem, mapping, inverse relation, equivalence relation, Peano's Axiom, definition of rational numbers and integers through equivalence relation.

Algebra: Surds, solution of simultaneous and quadratic equations, arithmetic, geometric and harmonic progression, Binomial theorem for any index, logarithms, exponential and logarithmic series, determinants.

Probability: Definition, dependent and independent events, numerical problems on addition and multiplication of probability, theorems of probability.

Trigonometry: Simple identities, trigonometric equations, properties of triangles, use of mathematical tables, solution of triangles, height and distance, inverse functions, DeMoivre's theorem.

Co-Ordinate Geometry: Co-ordinate geometry of the straight lines, pair of straight lines, circle, parabola, ellipse and hyperbola and their properties.

Calculus: Differentiation of function of functions, tangents and normal, simple examples of maxima of

minima, limits of function, integration of function (by parts, by substitution and by partial fraction), definite integral (application to volumes and surfaces of frustums of sphere, cone and cylinder).

Vectors: Position vector, addition and subtraction of vectors, scalar and vector products and their applications.

Dynamics: Velocity, composition of velocity, relative velocity, acceleration, composition of acceleration, motion under gravity, projectiles, laws of motions, principles of conservation of momentum and energy, direct impact of smooth bodies, pulleys.

Statics: Composition of co-planar, concurrent and parallel forces, moments and couples, resultant of set of coplanar forces and conditions of equilibrium, determination of Centroids in simple case, problems involving friction.

Statistics: Theory of probability, Mean, Median, Mode, Dispersion and Standard Deviation.

(ii) Computer Awareness

Organization of a computer, Central Processing Unit (CPU), Structure of instructions in CPU, input / output devices, computer memory, memory organization, back-up devices, Representation of characters, integers, and fractions, binary and hexadecimal representations, Binary Arithmetic: Addition, subtraction, division, multiplication, Logical Gates: AND, OR, NOT, XOR, NAND, Block structure of computers, peripheral devices, devices, Computer languages: Machine, Assembly and high-level language, Flow chart and Algorithms

(iii) Analytical Ability

Questions shall be set to test analytical and reasoning capability of candidates.

M.PHARM-MASTER OF PHARMACY

Pharmaceutics: Matter, Properties of Matter, Micromeretics and Powder Rheology, Surface and Interfacial Phenomenon, Viscosity and Rheology, Dispersion Systems, Complexation, Kinetics and Drug Stability, Microbiology in Pharmacy, Sterilization,

Immunology and Immunological Preparations, Pharmaceutical Biotechnology, Genetic Recombination, Pharmaceutical Jurisprudence & Ethics, Prescription/ Non-prescription Products, Dispensing and Community Pharmacy, Organization and Structure of Hospital Pharmacy, Drug Information Services, Records and Reports, Pharmacoepidemiology, Nuclear Pharmacy, Unit Operations in Manufacturing, Stoichiometry, Material of Construction, Material Handling Systems, Corrosion, Plant Location, Industrial Hazards and Safety Precautions, Automated Process Control Systems.

Dosage Forms, Designing & Evaluation: Pre-formulation studies, Liquid Dosage Forms, Semisolid Dosage Forms, Suppositories, Extraction and Galenical Products, Blood Products and Plasma Substitutes, Pharmaceutical Aerosols, Ophthalmic Preparations, Cosmeticology and Cosmetic Preparations, Capsules, Micro-encapsulation, Tablets, Coating of Tablets, Parenteral Products, Surgical Products, Packaging of Pharmaceutical Products, Performance Evaluation Methods, Biopharmaceutics & Pharmacokinetics, Clinical Pharmacokinetics, Bioavailability and Bioequivalence.

Pharmaceutical Chemistry: Inorganic Pharmaceutical & Medicinal Chemistry, Inorganic Radiopharmaceuticals, Physical Chemistry and its importance in pharmacy, Organic Chemistry and its importance in pharmacy, Biochemistry in Pharmaceutical Sciences, Physico-chemical and stereoisomeric (optical, geometrical) aspects of drug molecules and biological action, Bioisosterism, Microbial Transformations, Enzyme Immobilization Drug-receptor interactions including transduction mechanisms. Drug Metabolism and Concept of Prodrugs; Principles of Drug Design

Traditional analog and mechanism-based approaches, QSAR approaches, Applications of quantum mechanics, Computer-Aided Drug Designing (CADD) and molecular modeling.

Synthetic Procedures, Mode of Action, Uses, Structure Activity Relationships (including Physicochemical Properties) of the various Classes of Drugs: Drugs Acting at Synaptic and Neuro-Effector Junction Sites,



64 Glorious Years

Autacoids, Steroidal Drugs, Drugs Acting on the Central Nervous System, Diuretics; Cardiovascular Drugs, Thyroid and Antithyroid Drugs, Insulin and Oral Hypoglycemic Agents, Chemotherapeutic Agents.

Different Techniques of Pharmaceutical Analysis, Preliminaries, and Definitions, Fundamentals of Volumetric Analysis, Acid-Base Titrations, Oxidation-Reduction Titrations, Precipitation Titrations, Gravimetric Analysis, Non-Aqueous Titrations, Complexometric Titrations, Miscellaneous Methods of Analysis, Extraction Procedures, Instrumental Methods, Potentiometry, Conductometry, Coulometry, Polarography, Amperometry, Chromatography, Spectroscopic Techniques: UV-Vis, Fluorimetry, IR, NMR, Mass Spectrometry (EI & CI), Flame Photometry, Atomic Absorption, X-ray Diffraction, Radioimmunoassay.

Quality Assurance: GMP, GLP, ISO 9000, TQM, USFDA, Quality Review and documentation, Regulatory control, Regulatory drug analysis, Interpretation of analytical data, Validation, Quality audit (equipment validation, analytical procedure validation).

Pharmacology: Pathophysiology of Common Diseases, Basic Principles of Cell Injury and Adaptations, Basic Mechanisms Involved in the Process of Inflammation and Repair, Immunopathophysiology, Pathophysiology of Common Diseases. Fundamentals of general pharmacology, Adverse Drug Reactions, Bioassay of Drugs and Biological Standardization, Discovery and development of new drugs, Bioavailability and bioequivalence studies. Pharmacology of Peripheral Nervous System, Pharmacology of Central Nervous System, Pharmacology of Cardiovascular System, drugs acting on the hemopoietic system, Drugs acting on the respiratory system: drugs acting on urinary system, autacoids, drugs acting on the gastrointestinal tract, Pharmacology of endocrine system, chemotherapy, principles of toxicology, basic concepts of pharmacotherapy, Important disorders of organs, systems, and their management: cardiovascular disorders, CNS disorders, respiratory disease, gastrointestinal disorders, endocrine disorders, infectious diseases, hematopoietic disorders, joint and

connective tissue disorders, neoplastic diseases, therapeutic drug monitoring, concept of essential drugs and rational drug use, clinical Pharmacology

Pharmacognosy: Sources of Drugs, Classification of Drugs, Study of medicinally important plants belonging to the families: Apocynaceae, Solanaceae, Rutaceae, Umbelliferae, Leguminosae, Rubiaceae, Liliaceae, Graminae, Labiatae, Cruciferae, Papaveraceae. Cultivation, Collection, Processing, and Storage of Crude Drugs, Quality Control of Crude Drugs, Adulteration of crude drugs and their detection, Introduction to Active Constituents of Drugs. Systematic Pharmacognostic Study of: Carbohydrates and Derived Products, Lipids, Resins, Tannins, Volatile Oils.

Phytochemical Screening, Preparation of extracts, Fibers, Study of Biological Sources, Cultivation, and Diagnostic Features of Drugs: Glycoside Containing Drugs, Alkaloid-Containing Drugs, Enzymes, Studies of Traditional Drugs, Holistic concept of drug administration in traditional systems, Introduction to Ayurvedic preparations: Arishtas, Asavas, Gutikas, Tailas, Churnas, Lehyas, Bhasmas, General Techniques of Biosynthetic Studies and Metabolic Pathways, Role of Plant-Based Drugs in National Economy, Plant Tissue Culture, Marine Pharmacognosy, Natural allergens, photosensitizing agents, fungal toxins, Herbs as health foods and cosmetics, Standardization and quality control of herbal drugs (WHO guidelines).

APTITUDE TEST FOR MBA

The test is aimed at evaluating the verbal ability, quantitative aptitude, logical and abstract reasoning and knowledge of current affairs. The following is a brief description of contents of the test paper.

Section-A (English Language): Grammar, vocabulary, uncommon words, sentence completion, synonyms, antonyms, relationship between words and phrases and comprehension of passages.

Section-B (Numerical Aptitude): Numerical calculation, arithmetic, simple algebra, geometry and trigonometry, Interpretation of graphs, charts and tables.

Section-C (Thinking and Decision Making): Creative thinking, unfamiliar relationships, verbal reasoning, finding patterns trends and Assessment of figures and diagrams.

Section-D (General Awareness): Knowledge of current affairs and other issues related to trade, industry, economy, sports, culture and science.

M.SC. PHYSICS AND MATERIAL SCIENCE

Mathematical Methods: Calculus of single and multiple variables, partial derivatives, Jacobian, imperfect and perfect differentials, Taylor expansion, Fourier series. Vector algebra, Vector Calculus, Multiple integrals, Divergence theorem, Green's theorem, Stokes' theorem. First order equations and linear second order differential equations with constant coefficients. Matrices and determinants, Algebra of complex numbers.

Mechanics and General Properties of Matter: Newton's laws of motion and applications, Velocity and acceleration in Cartesian, polar and cylindrical coordinate systems, uniformly rotating frame, centrifugal and Coriolis forces, Motion under a central force, Kepler's laws, Gravitational Law and field, Conservative and non-conservative forces. System of particles, Center of mass, equation of motion of the CM, conservation of linear and angular momentum, conservation of energy, variable mass systems. Elastic and inelastic collisions. Rigid body motion, fixed axis rotations, rotation and translation, moments of Inertia and products of Inertia, parallel and perpendicular axes theorem. Principal moments and axes. Kinematics of moving fluids, equation of continuity, Euler's equation, Bernoulli's theorem.

Oscillations, Waves and Optics: Differential equation for simple harmonic oscillator and its general solution. Superposition of two or more simple harmonic oscillators. Lissajous figures. Damped and forced oscillators, resonance. Wave equation, traveling and standing waves in one- dimension. Energy density and energy transmission in waves. Group velocity and phase velocity. Sound waves in media. Doppler Effect.

Fermat's Principle. General theory of image formation. Thick lens, thin lens and lens combinations. Interference of light, optical path retardation. Fraunhofer diffraction. Rayleigh criterion and resolving power. Diffraction gratings. Polarization: linear, circular and elliptic polarization. Double refraction and optical rotation.

Electricity and Magnetism: Coulomb's law, Gauss's law. Electric field and potential. Electrostatic boundary conditions, Solution of Laplace's equation for simple cases. Conductors, capacitors, dielectrics, dielectric polarization, volume and surface charges, electrostatic energy. Biot-Savart law, Ampere's law, Faraday's law of electromagnetic induction, Self and mutual inductance. Alternating currents. Simple DC and AC circuits with R, L and C components. Displacement current, Maxwell's equations and plane electromagnetic waves, Poynting's theorem, reflection and refraction at a dielectric interface, transmission, and reflection coefficients (normal incidence only). Lorentz Force and motion of charged particles in electric and magnetic fields.

Kinetic Theory, Thermodynamics: Elements of Kinetic theory of gases. Velocity distribution and Equipartition of energy. Specific heat of Mono-, di- and tri-atomic gases. Ideal gas, van-der-Waals gas and equation of state. Mean free path. Laws of thermodynamics. Zeroth law and concept of thermal equilibrium. First law and its consequences. Isothermal and adiabatic processes. Reversible, irreversible and quasi-static processes. Second law and entropy. Carnot cycle. Maxwell's thermodynamic relations and simple applications. Thermodynamic potentials and their applications. Phase transitions and Clausius-Clapeyron equation. Ideas of ensembles, Maxwell- Boltzmann, Fermi-Dirac and Bose-Einstein distributions.

Modern Physics: Inertial frames and Galilean invariance. Postulates of special relativity. Lorentz transformations. Length contraction, time dilation. Relativistic velocity addition theorem, mass energy equivalence. Blackbody radiation, photoelectric effect, Compton effect, Bohr's atomic model, X-rays. Wave-particle duality, Uncertainty principle, the superposition principle, calculation of expectation values,



Schrödinger equation and its solution for one-, two- and three-dimensional boxes. Solution of Schrödinger equation for the one-dimensional harmonic oscillator. Reflection and transmission at step potential, Pauli exclusion principle. Structure of atomic nucleus, mass and binding energy. Radioactivity and its applications. Laws of radioactive decay.

Solid State Physics, Devices and Electronics: Crystal structure, Bravais lattices and basis. Miller indices. X-ray diffraction and Bragg's law; Intrinsic and extrinsic semiconductors, variation of resistivity with temperature. Fermi level. p-n junction diode, I-V characteristics, Zener diode and its applications, BJT: characteristics in CB, CE, CC modes. Single stage amplifier, two stage R-C coupled amplifiers. Simple Oscillators: Barkhausen condition, sinusoidal oscillators. OPAMP and applications: Inverting and non-inverting amplifier. Boolean algebra: Binary number systems; conversion from one system to another system; binary addition and subtraction. Logic Gates AND, OR, NOT, NAND, NOR exclusive OR; Truth tables; combination of gates; de Morgan's theorem.

M.SC. CHEMISTRY AND ENVIRONMENTAL SCIENCE

Physical Chemistry

Atomic and Molecular Structure: Planck's black body radiation, Photoelectric effect, Bohr's theory, de Broglie postulate, Heisenberg's Uncertainty Principle; Schrödinger's wave equation (including mathematical treatment), postulates of quantum mechanics, normalized and orthogonal wave functions, its complex conjugate (idea of complex numbers) and significance of p^2 ; Operators; Particle in one- dimension box, radial and angular wave functions for hydrogen atom, radial probability distribution; Finding maxima of distribution functions (idea of maxima and minima), energy spectrum of hydrogen atom; Shapes of s, p, d and f orbitals; Pauli's Exclusion Principle; Hund's rule of maximum multiplicity.

Gaseous State: Kinetic molecular model of a gas: collision frequency; collision diameter; mean free path

and viscosity of gases; Maxwell-Boltzmann distribution: molecular velocities, law of equipartition of energy, molecular basis of heat capacities; Ideal gases, and deviations from ideal gas behaviour, van der Waals equation of state; critical state, law of corresponding states.

Liquid State: Physical properties of Liquid, vapour pressure, surface tension and co-efficient of viscosity and their applications; effect of concentration of solutes on surface tension and viscosity; effect of temperature on viscosity of liquids.

Solid State: Unit Cells, Miller indices, crystal systems and Bravais Lattices, elementary applications of vectors to crystal systems; X-ray diffraction, Bragg's Law, Structure of NaCl, CsCl, and KCl, diamond, and graphite; Close packing in metals and metal compounds, semiconductors, insulators; Defects in crystals, lattice energy; isomorphism; heat capacity of solids.

Chemical Thermodynamics: Mathematical treatment: Exact and in-exact differentials, partial derivatives, Euler's reciprocity, cyclic rule; Reversible and irreversible processes; Laws of thermodynamics, thermochemistry, thermodynamic functions, such as enthalpy, entropy, and Gibbs free energy, their properties and applications; Partial molar quantities, dependence of thermodynamic parameters on composition, Gibbs Duhem equation, chemical potential and its applications.

Chemical and Phase Equilibria: Law of mass action; K_p , K_c , K_x and K_n ; Effect of temperature on K ; Le-Chatelier principle; Ionic equilibria in solutions; pH and buffer solutions; Salt hydrolysis; Solubility and solubility product; Acid – base titration curves; Indicators; Dilute solutions; Raoult's and Henry's Laws and their applications; Colligative properties; Gibbs phase rule; Phase equilibria; single and two- component phase diagrams.

Electrochemistry: Conductivity, equivalent and molar conductivity and their properties; Kohlrausch law; Debye-Hückel-Onsager equation; Ionic velocities, mobilities, transference numbers; Applications of conductance measurement; Quantitative aspects of

Faraday's laws of electrolysis, applications of electrolysis in metallurgy and industry; Electromotive force of a cell, Nernst equation; Standard electrode potential, Electrochemical series; Concentration cells with and without transference; Applications of EMF measurements including potentiometric titrations.

Chemical Kinetics: Order and molecularity of a reaction, differential and integrated form of rate expressions - basic ideas of integration and differentiation; Kinetics of opposing, parallel, and consecutive reactions; Steady state approximation in reaction mechanisms; Chain reactions; Uni-molecular reaction (Lindemann mechanism); Temperature dependence of reaction rates, Arrhenius equation; activation energy; Collision theory of reaction rates; Types of catalysts, specificity and selectivity, mechanisms of catalyzed reactions at solid surfaces; Enzyme catalysis (Michaelis-Menten mechanism, Double reciprocal plot), Acid-base catalysis.

Adsorption: Gibbs adsorption equation; adsorption isotherm; types of adsorption; surface area of adsorbents; surface films on liquids.

Spectroscopy: Beer-Lambert's law; fundamental concepts of rotational, vibrational, electronic and magnetic resonance spectroscopy.

Organic Chemistry

Basic Concepts in Organic Chemistry and Stereochemistry: Electronic effects (resonance, inductive, hyperconjugation) and steric effects and its applications (acid/base property); optical isomerism in compounds with and without any stereocenters (allenes, biphenyls); conformation of acyclic systems (substituted ethane/n-propane/n-butane) and cyclic systems, substituted cyclohexanes, and polycyclic (cis and trans decalins) systems.

Organic Reaction Mechanism and Synthetic Applications: Chemistry of reactive intermediates (carbocations, carbanions, free radicals, carbenes, nitrenes, benzyne); nucleophilic substitution, elimination reactions and mechanisms; Hofmann-Curtius- Lossen rearrangement, Wolff rearrangement, Simmons-Smith reaction, Reimer-Tiemann reaction,

Michael reaction, Darzens reaction, Wittig reaction and McMurry reaction; Pinacolpinacolone, Favorskii, benzilic acid rearrangement, Baeyer-Villiger reaction; oxidation and reduction reactions in organic chemistry; Organometallic reagents in organic synthesis (Grignard, organolithium, organocopper and organozinc (Reformatsky only); Diels-Alder, electrocyclic and sigmatropic reactions; functional group inter-conversions and structural problems using chemical reactions.

Qualitative Organic Analysis: Identification of functional groups by chemical tests; elementary UV, IR and ^1H NMR spectroscopic techniques as tools for structural elucidation of simple organic molecules.

Natural Products Chemistry: Chemistry of alkaloids, steroids, terpenes, carbohydrates, amino acids, peptides and nucleic acids.

Aromatic and Heterocyclic Chemistry: Monocyclic, bicyclic and tricyclic aromatic hydrocarbons, and monocyclic compounds with one hetero atom: synthesis, reactivity and properties, aromaticity; Electrophilic and nucleophilic aromatic substitution reactions.

Inorganic Chemistry

Periodic Table: Periodic classification of elements, Aufbau's principle, periodicity; Variations of orbital energy, effective nuclear charge, atomic, covalent, and ionic radii, ionization enthalpy, electron gain enthalpy, and electronegativity with atomic number, electronic configuration of diatomic molecules (first and second row elements)

Extractions of Metals: General methods of isolation and purification of elements; Principles and applications of Ellingham diagram. Chemical Bonding and shapes of molecules:

Ionic bond: Packing of ions in crystals, radius ratio rule, Born-Landé equation, Kapustinskii expression, Madelung constant, Born-Haber cycle, solvation energy, polarizing power and polarizability; Fajan's rules; Covalent bond: Lewis structure, valence bond theory. Hybridization, molecular orbital theory,



molecular orbital diagrams of diatomic and simple polyatomic molecules and ions; Multiple bonding (s and p bond approach) and bond lengths; van der Waals forces, ion-dipole forces, dipole-dipole interactions, induced dipole interactions, instantaneous dipole- induced dipole interactions, hydrogen bonding; Effect of intermolecular forces on melting and boiling points, solubility energetics of dissolution process; Bond dipole, dipole moment, and molecular polarizabilities; VSEPR theory and shapes of molecules; ionic solids.

Main Group Elements (s and p blocks):

Reactions of alkali and alkaline earth metals with oxygen, hydrogen and water; Alkali and alkaline earth metals in liquid ammonia; Gradation in properties of main group element in a group; Inert pair effect; Synthesis, structure and properties of diborane, ammonia, silane, phosphine and hydrogen sulphide; Allotropes of carbon; Oxides of nitrogen, phosphorus and sulphur; Oxoacids of phosphorus, sulphur and chlorine; Halides of silicon and phosphorus; Synthesis and properties of borazine, silicone and phosphazene; Synthesis and reactions of xenon fluorides.

Transition Metals (d block): Characteristics of d-block elements; oxide, hydroxide and salts of first row metals; coordination complexes: structure, isomerism, reaction mechanism and electronic spectra; VB, MO and crystal field theoretical approaches for structure, color and magnetic properties of metal complexes; Organometallic compounds with metal-ligand single and multiple bonds (such as metal carbonyls, metal nitrosyls and metallocenes); Homogenous catalysis involving Wilkinson's catalyst.

Bioinorganic Chemistry: Essentials and trace elements of life; basic reactions in the biological systems and the role of metal ions, especially Fe^{2+} , and Zn^{2+} ; structure and function of myoglobin, hemoglobin and carbonic anhydrase.

Instrumental Methods of Analysis: Basic principles; instrumentations and simple applications of conductometry, potentiometry and UV-vis spectrophotometry; analyses of water, air and soil

samples.

Analytical Chemistry: Principles of qualitative and quantitative analysis; Acid-base, oxidation- reduction and complexometric titrations using EDTA; Precipitation reactions; Use and types of indicators; Use of organic reagents in inorganic analysis; Radioactivity, nuclear reactions, applications of isotopes; Mathematical treatment in error analysis, elementary statistics and probability theory.

M.SC. MATHEMATICS AND SCIENTIFIC COMPUTING

Algebra: Groups, subgroups, Abelian groups, non-abelian groups, cyclic groups, permutation groups; Normal subgroups, Lagrange's Theorem for finite groups, group homomorphism and quotient groups, Rings, Subrings, Ideal, Prime ideal; Maximal ideals; Fields, quotient field. Vector spaces, Linear dependence and Independence of vectors, basis, dimension, linear transformations, matrix representation with respect to an ordered basis, Range space and null space, rank-nullity theorem; Rank and inverse of a matrix, determinant, solutions of systems of linear equations, consistency conditions. Eigenvalues and eigenvectors. Cayley-Hamilton theorem. Symmetric, Skew symmetric, Hermitian, Skew-Hermitian, Orthogonal and Unitary matrices.

Real Analysis: Sequences and series of real numbers. Convergent and divergent sequences, bounded and monotone sequences, Convergence criteria for sequences of real numbers, Cauchy sequences, absolute and conditional convergence; Tests of convergence for series of positive terms-comparison test, ratio test, root test, Leibnitz test for convergence of alternating series. Functions of one variable: limit, continuity, differentiation, Rolle's Theorem, Cauchy's Taylor's theorem. Interior points, limit points, open sets, closed sets, bounded sets, connected sets, compact sets; completeness of $\mathbb{R}$, Power series (of real variable) including Taylor's and Maclaurin's, domain of convergence, term-wise differentiation and integration of power series. Functions of two real variable: limit, continuity, partial derivatives, differentiability, maxima

and minima. Method of Lagrange multipliers, Homogeneous functions including Euler's theorem.

Complex Analysis: Functions of a complex Variable, Differentiability and analyticity, Cauchy Riemann Equations, Power series as an analytic function, properties of line integrals, Goursat Theorem, Cauchy theorem, consequence of simply connectivity, index of a closed curves. Cauchy's integral formula, Morera's theorem, Liouville's theorem, Fundamental theorem of Algebra, Harmonic functions.

Integral Calculus: Integration as the inverse process of differentiation, definite integrals and their properties, Fundamental theorem of integral calculus. Double and triple integrals, change of order of integration. Calculating surface areas and volumes using double integrals and applications. Calculating volumes using triple integrals and applications.

Differential Equations: Ordinary differential equations of the first order of the form $y'=f(x,y)$. Bernoulli's equation, exact differential equations, integrating factor, Orthogonal trajectories, Homogeneous differential equations-separable solutions, Linear differential equations of second and higher order with constant coefficients, method of variation of parameters. Cauchy-Euler equation.

Vector Calculus: Scalar and vector fields, gradient, divergence, curl and Laplacian. Scalar line integrals and vector line integrals, scalar surface integrals and vector surface integrals, Green's, Stokes and Gauss theorems and their applications.

Linear Programing: Convex sets, extreme points, convex hull, hyper plane & polyhedral Sets, convex function and concave functions, Concept of basis, basic feasible solutions, Formulation of Linear Programming Problem (LPP), Graphical Method of LPP, Simplex Method.





LIST OF PROGRAMMES OFFERED BY THE UNIVERSITY AND THEIR MODE OF ADMISSION

S.No.	Category	Programme	Mode of Admission (Through)
1.	Undergraduate	B.Tech.	Through JEE Mains-2026
		B.Tech. (Lateral Entry)	CUET(UG)-2026/CUET (PG)-2026
		BBA	CUET(UG)-2026
		B.Pharm.	CUET(UG)-2026
		B.Pharm. (Lateral Entry)	CUET(UG)-2026
2.	Postgraduate	M.Tech.	GATE/CUET(PG)-2026/*MET-2026 (PG)
		MCA	CUET (PG)-2026/*MET-2026
		MBA	CMAT-2026/CUET (PG)-2026/*MET-2026
		M.Sc.	CUET(PG)-2026/*MET-2026 (PG)
		M.Pharm.	GPAT/GATE/CUET(PG)-2026/*MET-2026 (PG)
3.	Ph.D.	Ph.D.	*MET-2026 (Ph.D.)

*MET 2026 stands for Malaviya Entrance Test 2026, which is the admission test conducted by the University.

कुल-गीत

महामना की सुयश शोभा, तकनीकि की यह तपस्थली।
योग-स्थली गुरु गोरक्ष की, बुद्ध की निर्वाण स्थली।।

दृश्य अनुपम् राष्ट्री का, मिलती गले रोहिन वलय।
ज्ञान मार्गी संत कबिरा की, कृति हुयी मनोहर मधुमय।।

ज्ञान और विज्ञान का, मंदिर मनोरम शुभ्र पावन।
शोध के जिज्ञासु करते, सरस्वती का चरण वंदन।।

मानवता का मंदिर मनोहर, आलोक मय दिव्य सुन्दर।
गूंजता परिसर हमारा, सकल विद्या का शंख स्वर।।

नवीनता की खोज में, संलग्न यह विद्या सदन।
सुज्ञान के इस कल्पतरु का, करते हैं हम शत-शत नमन।।

योगः कर्मसु कौशलम्

मदन मोहन मालवीय
इन्जीनियरिंग कालेज,
गोरखपुर
स्थापित-1962



मदन मोहन मालवीय
प्रौद्योगिकी विश्वविद्यालय,
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स्थापित-2013



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