



Department of Engineering Mathematics and Computing

Induction Program-2025

The following responsibilities is assigned to the respective faculty members of the department for the induction program which is going to held on 18th -20th August, 2025 in Room No. -106(J109).

S. No.	Activity	Departmental Faculty assigned (Presenter)	Time
Day 1 (18/08/2025)			
1	Registration: <ul style="list-style-type: none"> Mandatory registration on IUMS. All the students will be required to register on the IUMS portal without fail. 	Dr. Nidhi Humnekar And Dr. Kuldeep Kumar Tiwari	10:30-11:30 AM
2	About Institute: <ul style="list-style-type: none"> Foundation & Legacy Administrative and Academic dignitaries Vision & Mission Academic Strength Infrastructure & Facilities Research, Innovation & Industry MoUs Achievements & Recognition 	Dr. V. P. Shinde	11:30-11:45 AM
3	Brief Profile of Department: <ul style="list-style-type: none"> Vision & Mission of the Department Programs Offered Academic & Pedagogical Approach Faculty Strength & Expertise Laboratories & Research Facilities Research, Innovation & Collaboration Student Achievements Co-curricular & Professional Society Activities Placement & Higher Studies Support 	Dr. D. K. Jain/ Dr. Atul Kumar Ray	11:45-12:15 PM
4	Interaction with faculty	Individual Faculties	12:15-12:30 PM
5	Interaction with Alumni: <ul style="list-style-type: none"> Profile of Alumni Guests, with expected themes of discussion. 	Offline/Online (M. Sidharth, Mr. Sumit, Aditya, and Isha,)	12:30-1:30 PM
Break			
6	Information about curriculum		
	Academic Guideline: <ul style="list-style-type: none"> Overview of academic policies, semester timelines, and credit requirements. Attendance rules (minimum % required to appear in exams). Importance of continuous learning and regular participation in classes, labs, and assignments. 	Dr. D. K. Jain	2:30-3:00 PM



	<ul style="list-style-type: none"> Academic integrity: avoiding plagiarism, cheating, and malpractice. Multiple-entry-exit provision <p>Scheme:</p> <ul style="list-style-type: none"> Explanation of the programme structure: total semesters, credits, and course distribution (core, electives, labs, projects). Credit load per semester and the minimum credits needed for promotion/graduation. Allocation of theory, practical, and project components. Integration of interdisciplinary and skill-oriented courses. Provision for minor and honor degrees Mandatory Audit Courses Mandatory Workshops. <p>Syllabus & Dynamic Contents:</p> <ul style="list-style-type: none"> Significance of dynamic contents in the syllabus. Linkage between syllabus and industry skill requirements. Partial content delivery by industry experts. <p>Open Category (OC) & Departmental Elective (DE) Courses:</p> <ul style="list-style-type: none"> Guideline for registration. Significance & Need for interdisciplinary and cross-disciplinary knowledge. Availability of MITS-MOOCs <p>Feedback on Curriculum, Course Outcomes (COs), etc. through MOODLE</p> <p>Examination Process:</p> <ul style="list-style-type: none"> Continuous evaluation through minor exams, quiz and assignment for theory courses, and using rubrics for practical! course evaluation. Mode and duration of exam for minor and major. Relative grading Provision of summer semester Rules of promotion to next semester/year 		
	<p>SWAYAM NPTEL</p> <ul style="list-style-type: none"> NPTEL Local Chapter and its Rank in the Country 	Dr. Minakshi Dahiya/ Dr. Divya Chaturvedi	3:00-3:30 PM



	<ul style="list-style-type: none">• Credit transfer facilitation.• Encouragement to pursue at least one course per year aligned with career goals, for self-learning.• Process for registration, tracking, and certification.		
	Novel Engaging Course (NEC) <ul style="list-style-type: none">• Institute's initiative to introduce innovative, engaging, and interdisciplinary courses beyond the core curriculum.• Activity & project-driver learning to boost creativity and problem-solving.• Often delivered in collaborative mode with industry experts or visiting faculty.	Dr. Atul Kumar Ray	3:30-4:00 PM
	Coding Skills/Proficiency: <ul style="list-style-type: none">• Focus on enhancing competitive coding skills using online platforms like: LeetCode, Codechef,• HackerRank etc.• Continuous monitoring through CPTrack (an interface developed by the students). Professional Skills & Competencies (PSC): <ul style="list-style-type: none">• Focus on developing soft skills: communication, teamwork, leadership, adaptability.• Technical competencies: coding, domain-specific tools, and modern software.• Workshops on resume writing, interview skills, and presentation techniques.• Regular skill assessments to track progress and readiness for industry.• Encouragement to maintain a skills portfolio showcasing certifications, projects, and achievements. Provision of Professional Certification (with Credit Arrangement) Internship: <ul style="list-style-type: none">• Provision of SIP-I, II, SEP, Research Internship and full semester internship. Professional Development Component: to encourage co-curricular involvement.	Dr. Vijay Shankar Sharma	4:00-4:15 PM
	OBE Philosophy & Model: <ul style="list-style-type: none">• Inform the students regarding COs, POs, PSO, PEOs	Dr. J K Muthale and Dr. Kuldeep Kumar Tiwari	4:15-4:30 PM



	<ul style="list-style-type: none"> Continuous assessment of outcomes through assignments, projects, and exams etc. Importance of mapping personal learning to these outcomes for self-improvement. 		
	Micro/Macro/Cornerstone and Capstone projects: <ul style="list-style-type: none"> Significance Allotment process Rubrics based evaluation through project expo. 	Dr. Atul Kumar Ray	4:30-4:45 PM

Day 2 (19/08/2025)

1	Information about:		
	IUMS & MOODLE: <ul style="list-style-type: none"> Online registration for semesters, NEC, Elective courses. Faculty Feedback Procedure and importance Access to academic records, attendance, and grade sheets. Downloading admit cards, fee receipts, and official notices. Quiz/Assignment, Lecture material and other academic contents through MOODLE 	Dr. Anand Pawar and Dr. S. K. Bhardwaj	11:30-12:00 PM
	Gender Awareness <ul style="list-style-type: none"> Institutional Provisions: Internal Complaints Committee (ICC), Women's Cell, Counseling & Support Services, Awareness Campaigns. 	Dr. Divya Chaturvedi and Dr. Sapna Kumari	12:00-12:15 PM
	Discipline & Code of Conduct <ul style="list-style-type: none"> Punctuality & Attendance: Students must be regular and punctual in lectures, laboratories, and official events. Minimum attendance requirements must be strictly met as per MITS-Deemed University regulations. Identity & Decorum: Students must wear their valid MITS identity card at all times within the campus. Dress modestly and maintain professional behavior. Respect & Professionalism: Treat all faculty, staff, fellow students, and institute property with respect. 	Dr. Atul Kumar Ray	12:15-12:30 PM
	NSS/ NCC/ Sports/ Clubs/ Student Chapters/ E-newsletter:	Dr. Vijay S. Sharma	12:30-1:00 PM



	<ul style="list-style-type: none">Holistic education, combining academic rigor with personality development, physical fitness, creativity, and social responsibility.List of prominent Clubs, student chapters and professional society chapters.Achievements of students are disseminated/ published in the e-newsletter.		
	<p>Internship, Hackathon, Training & Placement, Startup, Incubation, Competitive Exams for Higher Study:</p> <ul style="list-style-type: none">Regular participation in Smart India Hackathon (SIH) and other national-level innovation challenges.The institute organizes internal hackathons to prepare students for larger competitions, encouraging problem solving, rapid prototyping, and teamwork.Students are guided by faculty mentors and industry experts during these events.Winners get exposure to funding opportunities, incubation support, and recognition at national platforms.Activities for placement preparations include soft skills training, aptitude building, group discussion practice, technical interviews, and resume writing workshops etc.Many top recruiters such as TCS, Capgemini, Zensar, Infosys, Jaro Education, Persistent Systems, and Amazon visit MITS for campus placements.Students with innovative ideas receive mentorship, seed funding guidance, and networking support.The incubation ecosystem supports prototyping, patent filing, product validation, and investor connections.Structured guidance for students	Dr. Anand Pawar	1:00-1:30 PM



	<p>aspiring to pursue M.Tech, MBA, MS, or Ph.D. through national and international exams such as GATE, CAT, GRE, IELTS, TOEFL.</p> <ul style="list-style-type: none"> Faculty mentors conduct special preparatory classes, mock tests, and counseling sessions for higher studies. <p>Research Ecosystem:</p> <ul style="list-style-type: none"> MITS Journal: Students can submit their research paper in the institute's journal Financial support for Conference paper presentations outside the institute. Final support for research based project development. Student Conference at MITS-Deemed University. 		
Break			
	Mentor-Mentee Scheme		
2	<p>Mentor-Mentee Scheme:</p> <ul style="list-style-type: none"> Required for providing a supportive environment, career planning, skill enhancement, and personality development. Responsibilities of Mentor and Mentee. <p>Profiling of Students</p> <ul style="list-style-type: none"> To be implemented as per the format shared by Dean, Academics. 	Dr. Vijay S. Sharma and Dr. Atul Kumar Ray	2:30-3:00 PM 3:00-3:30 PM
3	<p>Demonstration of Students Projects:</p> <ul style="list-style-type: none"> Demonstrate innovative projects that will inspire the newly admitted students 	Dr. Atul Kumar Ray	3:30 -4:00 PM
4	Visit to Laboratories and other facilities of Department	Dr. Nidhi Humnekar, Dr. Kuldeep Kumar Tiwari, Dr. Anand Pawar	4:00-4:15 PM
Day 3 (20/08/2025)			
1	<p>Bridge-up: Beginning of Professional Journey:</p> <ul style="list-style-type: none"> The workshop may include: Fundamental Concepts Refresher, Emerging Tech Awareness, Mini Hackathon and Creative & Cultural Immersion. 	Dr. Barkha Tiwari	10:30 -1:00 PM
2	Registration for Clubs/Societies	Dr. Atul Kumar Ray	1:00-1:30 PM
Break			
3	Institute Facilities visit	Dr. S. K. Bhardwaj, Dr. D. K.	2:30-3:30 PM



माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA

Deemed University
(Declared under Distinct Category by Ministry of Education, Government of India)
NAAC ACCREDITED WITH A++ GRADE



		Mishra	
4	Feedback	Dr. Nidhi Humnekar, Dr. Kuldeep Kumar Tiwari	3:30-4:00 PM

Dr. D. K. Jain

Professor and Head, MAC