



Name of the Department/Centre: Mathematics and Computing Name of the Programme: B.Tech

Date: 22/08/2025

ACTIVITY REPORT

Name of the Activity:	Induction Program - 2025
Traine of the fietivity.	<u> </u>
Date:	18 th to 20 th August, 2025
Venue:	Room number: 106 (J109)
Number of Students Admitted:	155
Number of Students Present /Participated in the Induction Program (Day-Wise):	Day - 1: 144 Day - 2:145 Day - 3: 143
Number of Students Registered on IUMS Portal:	150 (Appox)
Name of the Faculty Coordinator (s):	Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar
Brief detailing of Activities Conducted (Day-wise):	Day - 1: The first day of the induction program marked a vibrant start for the 2025 batch. It was designed to introduce students to the institute, the department, and their academic responsibilities. Faculty, alumni, and student interactions set a positive tone for the journey ahead. Registration: The day began with the registration process on IUMS, coordinated by Dr. Nidhi Humnekar and Dr. Kuldeep Kumar Tiwari. Students ensured mandatory enrollment on the IUMS platform, familiarizing themselves with the academic management system.

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Riwar'.

Faculty Coordinator(s)

Dr. D. K. Jain



MITS Q

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



About Institute: Dr. V. P. Shinde introduced the students to the institute's foundation, vision, mission, infrastructure, and achievements. He emphasized the strong academic environment, research ecosystem, and institutional recognition at national and international levels.



Brief Profile of Department: Dr. Atul Kumar Ray presented the department's vision, programs offered, pedagogical approach, faculty expertise, and research facilities. They also discussed student achievements, collaborations, and placement support initiatives.

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Niwar'.

Faculty Coordinator(s)

Dr. D. K. Jain



MITS Q

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



Interaction with Faculty: Each faculty member interacted with the students, introducing their expertise and academic roles. This created a comfortable environment and encouraged students to approach faculty for academic and professional guidance.

Interaction with Alumni: Distinguished alumni including M. Sidharth, Mr. Sumit, Aditya, and Isha interacted with students, sharing their professional experiences and achievements. They highlighted the role of the department in shaping their careers and inspired students to focus on skill-building, internships, and career readiness.

Information about Curriculum: Dr. D. K. Jain provided detailed guidance on academic policies, credit systems, course distribution, and assessment patterns. He emphasized the importance of academic integrity, interdisciplinary courses, and continuous participation in classes and labs. Syllabus & Dynamic Contents: Dr. Minakshi Dahiya and Dr. Divya Chaturvedi explained the significance of dynamic contents in the syllabus, its linkage with industry needs, and opportunities through NPTEL/SWAYAM. Students were encouraged to take advantage of MOOCs and elective courses.

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Niwari.

Faculty Coordinator(s)

Dr. D. K. Jain



MITS Q

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



Novel Engaging Courses (NEC): Dr. Atul Kumar Ray introduced Novel Engaging Courses, designed to encourage creativity, problem-solving, and innovation. These courses blend industry expertise with academic projects, offering students opportunities for hands-on learning. Professional Skills & Competencies (PSC): Dr. Vijay Shankar Sharma presented the importance of professional and technical skills. He explained how students can develop coding proficiency, communication skills, teamwork, and adaptability through workshops, assessments, and certifications.

OBE Philosophy & Model: Dr. Kuldeep Kumar Tiwari explained Outcome-Based Education, introducing COs, POs, PSOs, and PEOs. They highlighted how continuous assessment and mapping personal goals to outcomes improves learning.



Micro/Macro/Capstone Projects: Dr. Atul Kumar Ray concluded the

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Niwar'.

Faculty Coordinator(s)

Dr. D. K. Jain





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

day with insights on student projects, evaluation methods, and the importance of research and innovation. He highlighted how projects contribute to holistic learning and industry readiness.

Day - 2: The second day of the program focused on familiarizing students with institutional digital tools, discipline, inclusivity, extracurricular activities, and research. Sessions included interactive lectures, demonstrations, and lab visits.

Information about IUMS & MOODLE: Dr. Anand Pawar conducted a session introducing IUMS and MOODLE platforms. They explained the process of course registration, accessing materials, submitting assignments, and checking results. This practical session enabled students to become comfortable with digital academic tools.



Gender Awareness: Dr. Sapna Kumari engaged students in a thought-provoking session on gender equality and inclusivity. They emphasized institutional support systems such as the Internal Complaints Committee (ICC) and counseling services, creating awareness about campus safety and inclusivity.

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Niwar'.

Faculty Coordinator(s)

Dr. D. K. Jain



MITS Q

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



Discipline & Code of Conduct: Dr. Atul Kumar Ray explained institutional expectations regarding attendance, punctuality, professional behavior, and identity. He stressed respect towards faculty, peers, and campus property, highlighting the importance of professionalism in students' conduct.

NSS/NCC/Clubs/Student Chapters: Dr. Vijay S. Sharma introduced various co-curricular opportunities, including sports, cultural clubs, professional societies, and student chapters. He encouraged students to participate actively for overall personality development.

Internship, Hackathon, Training & Placement, Higher Studies: Dr. Anand Pawar detailed opportunities for internships, hackathons, placement drives, and incubation support. He emphasized industry interactions, startup ecosystem, and preparation for higher studies (GATE, GRE, CAT, IELTS). Students were encouraged to leverage these platforms for career growth.

Research Ecosystem: Dr. Barkha Tiwari introduced the research ecosystem, encouraging students to contribute to institute journals, conferences, and innovative projects. Financial support opportunities and student research presentations were also highlighted.

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Niwar'.

Faculty Coordinator(s)

Dr. D. K. Jain





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

Mentor-Mentee Scheme & Profiling: Dr. Vijay S. Sharma explained the mentor-mentee structure, where each student is paired with a faculty mentor for academic and personal guidance. Student profiling was introduced as a tool for career planning and skill mapping.

Student Project Demonstration: Innovative student projects were showcased by Dr. Atul Kumar Ray, inspiring first-year students to engage in hands-on learning, innovation, and creative problem-solving.

Laboratory Visit: The day concluded with a guided visit to department laboratories and facilities led by Dr. Nidhi Humnekar, Dr. Kuldeep Kumar Tiwari, and Dr. Anand Pawar. Students interacted with faculty and lab staff to understand the facilities available for their academic journey.



Day - 3: The final day of the program focused on workshops, institutional exposure, and feedback collection. The sessions aimed to provide students with a strong start to their professional journey and connect them to institutional support systems.

Bridge-up Workshop: Dr. Barkha Tiwari conducted a bridge-up session focusing on fundamental concept refreshers, emerging technologies, and creative activities. This session helped students align themselves with academic expectations and professional skill requirements.

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar) Faculty Coordinator(s)

Kiwar'.

Dr. D. K. Jain





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



Club/Society Registration: Students formally registered for various departmental clubs and societies under the guidance of Dr. Atul Kumar Ray. This step encouraged active participation in extracurricular activities.



Institute Facilities Visit: A campus-wide visit was organized by Dr. S. K. Bhardwaj and Dr. D. K. Mishra, introducing students to the institute's central facilities, including the library, sports complex, and other shared resources.

Feedback Session: The induction program concluded with a feedback session coordinated by Dr. Nidhi Humnekar and Dr. Kuldeep Kumar Tiwari.

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Faculty Coordinator(s)

Niwar'.

Dr. D. K. Jain





Outcome of the Program:	The three-day induction program was highly successful in achieving its objectives. Students actively engaged in interactive sessions, practical demonstrations, and faculty-alumni interactions. The following key outcomes were observed:
	• Enhanced Understanding of Academic Structure: Students gained clarity on curriculum, grading policies, credits, and interdisciplinary opportunities.
	• Strong Faculty Connections: Faculty interactions promoted a student-friendly environment, building trust and approachability.
	• Inspiration from Alumni: Alumni success stories encouraged students to focus on internships, projects, and proactive planning.
	• Familiarization with Digital Tools: Training on IUMS and MOODLE equipped students to manage academic work effectively.
	• Promotion of Inclusivity and Respect: Sessions on gender awareness and discipline emphasized inclusivity and professionalism.
	• Co-curricular Engagement: Students were motivated to participate in clubs, societies, and mentor-mentee activities.
	• Practical Learning Awareness: Demonstrations of projects and lab visits encouraged creativity and innovation.
Any Specific Comment/ Observation/ Mention (Optional)	

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Rivari.

Faculty Coordinator(s)

Dr. D. K. Jain





Departmental Schedule of Induction Program (in line with the institutional plan)

S. No.	Activity	Departmental Faculty assigned (Presenter)	Time
	Day 1 (18/08/2		
1	Registration: • 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: 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: 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: • Profile of Alumni Guests, with expected themes of discussion.	Offline/Online (Mr. Sidharth, Mr. Sumit, Aditya, and Isha,)	12:30-1:30 PM
	Break		1
6	Information about curriculum		
	Academic Guideline: • Overview of academic policies, semester	Dr. D. K. Jain	2:30-3:00 PM

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Faculty Coordinator(s)

Dr. D. K. Jain





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

timelines, and	l credit regi	uirements.

- Attendance rules (minimum % required to appear in exams).
- Importance of continuous learning and regular participation in classes, labs, and assignments.
- Academic integrity: avoiding plagiarism, cheating, and malpractice.
- Multiple-entry-exit provision

Scheme:

- 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 skilloriented courses.
- Provision for minor and honor degrees
- Mandatory Audit Courses
- Mandatory Workshops.

Syllabus & Dynamic Contents:

- Significance of dynamic contents in the syllabus.
- Linkage between syllabus and industry skill requirements.
- Partial content delivery by industry experts.

Open Category (OC) & Departmental Elective (DE) Courses:

- Guideline for registration.
- Significance & Need for interdisciplinary and cross-disciplinary knowledge.

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Faculty Coordinator(s)

A vai

Dr. D. K. Jain





	NAAC ACCREDITED WITH	A. GRADE	
•	Availability of MITS-MOOCs		
(COs)	back on Curriculum, Course Outcomes), etc. through MOODLE Examination Process: 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 YAM NPTEL NPTEL Local Chapter and its Rank in the Country 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.	Dr. Divya Chaturvedi/Dr. Atul Kumar Ray	3:00-3:30 PM
Novel •	Engaging Course (NEC) Institute's initiative to introduce innovative, engaging, and interdisciplinary courses beyond the core		3:30-4:00 PM
•	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	
Codin	ng Skills/Proficiency: Focus on enhancing competitive coding skills using online platforms like: LeetCode, Codechef,	Dr. Vijay Shankar Sharma	4:00-4:15 PM

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Niwar'.

Faculty Coordinator(s)

Dr. D. K. Jain





 Continuous monitoring through CPTrack (an interface developed by the students). Professional Skills & Competencies (PSC): 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: Provision of SIP-I, II, SEP, Research Internship and full semester internship. Professional Development Component: to encourage co-curricular involvement. 		
 OBE Philosophy & Model: Inform the students regarding COs, POs, PSO, PEOs Continuous assessment of outcomes through assignments, projects, and exams etc. Importance of mapping personal learning to these outcomes for self-improvement. 	Kumar Hwari	4:15-4:30 PM
Micro/Macro/Cornerstone and Capstone projects:	Dr. Atul Kumar Ray	4:30-4:45 PM
Day 2 (19/08	3/2025)	

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar) Faculty Coordinator(s)

Riwari.

Dr. D. K. Jain





	Information about:		
	 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 • 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
1	 Piscipline & Code of Conduct 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: • Holistic education, combining academic rigor with personality	Dr. Vijay S. Sharma	12:30-1:00 PM

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar) Faculty Coordinator(s)

Riwari.

Dr. D. K. Jain





NAAC ACCREDITED WITH	A++ GRADE	
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 enewsletter. Internship, Hackathon, Training & Placement,		1:00-1:30 PM
 Startup, Incubation, Competitive Exams for Higher Study: 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. 	Dr. Anand Pawar	1:00-1:30 PM

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Niwar'.

Faculty Coordinator(s)

Dr. D. K. Jain





_	NAAC ACCREDITED WITH	ATT GRADE	
	 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 aspiring to pursue M.Tech, MBA, MS, or Ph.D. through national and international exams such as GATE, CAT, GRE, IELTS, TOEFL. Faculty mentors conduct special 		
	preparatory classes, mock tests, and counseling sessions for higher		
	studies.		
	 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	 Mentor-Mentee Scheme: Required for providing a supportive environment, career planning, skill enhancement, and personality development. Responsibilities of Mentor and Mentee. Profiling of Students 	Dr. Vijay S. Sharma and Dr. Atul Kumar Ray	2:30-3:00 PM 3:00-3:30 PM
	To be implemented as per the		
	• • •		

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Niwar'.

Faculty Coordinator(s)

Dr. D. K. Jain





	format shared by Dean, Academics.		
3	Demonstration of Students Projects: • 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 (20/08/2	2025)	
1	Bridge-up: Beginning of Professional Journey: • 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. Mishra	2:30-3:30 PM
4	Feedback	Dr. Nidhi Humnekar, Dr. Kuldeep Kumar Tiwari	3:30-4:00 PM

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Riwari.

Faculty Coordinator(s)

Dr. D. K. Jain



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

SOME GLIMPSES OF THE INDUCTION PROGRAM













Niwari. (Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Faculty Coordinator(s)

Dr. D. K. Jain













(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Niwari.

Faculty Coordinator(s)

Dr. D. K. Jain





DAY-WISE ATTENDANCE OF THE INDUCTION PROGRAM	
Scanned Copy of Attendance Sheet (must be on printed typed sheet)	Scanned Copy of Attendance Sheet (must be on printed typed sheet)

Attendance Attached

(Dr. Kuldeep Kumar Tiwari Dr. Nidhi Humnekar)

Riwar.

Faculty Coordinator(s)

Dr. D. K. Jain