المعهد الهندي للتكنولوجيا دلهي
أبوظبي

INDIAN INSTITUTE OF TECHNOLOGY DELHI
ABU DHABI

IIT Delhi - Abu Dhabi

M.Tech. Admissions

in Energy Transition and Sustainability

Admissions Open

Semester 1, 2025-26

Invitation to pursue

M.Tech. at IIT Delhi - Abu Dhabi (IITD-AD)

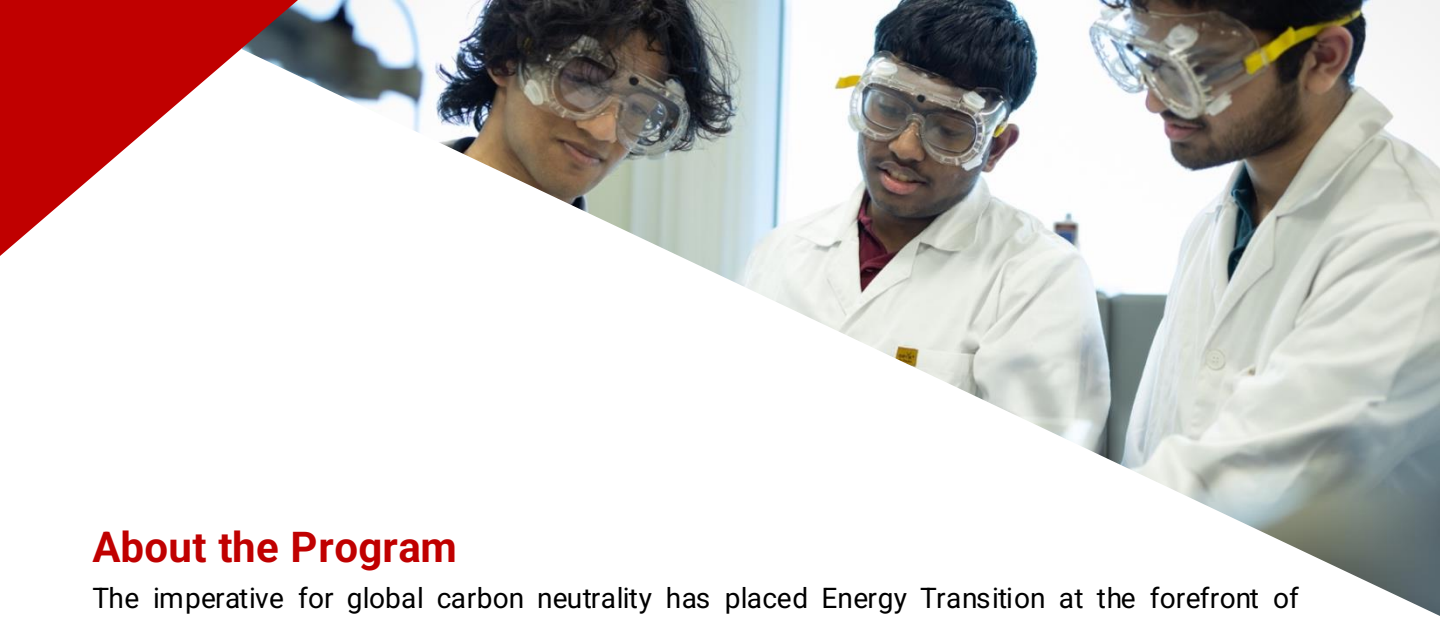
The establishment of the Indian Institute of Technology (IIT) Delhi - Abu Dhabi as the first international branch campus of IIT Delhi marks a significant stride in its global outreach and underscores the deepening educational partnership between India and the UAE. Starting its operations in January 2024 with an inaugural M.Tech. in Energy Transition and Sustainability, it now offers B.Tech. Programs in Computer Science & Engineering, Energy Engineering, and Chemical Engineering, and a Ph.D. program in Energy and Sustainability. With its strategic location, future-forward programs, and the esteemed IIT Delhi heritage, the Abu Dhabi campus is poised to become a leading hub for engineering, technology, and research in the region, nurturing a new generation of global innovators and leaders.

1ST Asian University Ranking Southern Asia (QS Ranking 2025)

26TH Worldwide Ranking in Engineering & Technology (QS Rankings 2025)

https://www.topuniversities.com/university-subject-rankings/engineering-technology

Indian Institute of Technology Delhi (IIT Delhi) is one of India's highest-ranked academic institutions. Since its inception, over 60,000 students have graduated from IIT Delhi in various disciplines, including Engineering, Physical Sciences, Management, Humanities, and Social Sciences. From visionary tech entrepreneurs reshaping industries to influential policymakers guiding national agendas and groundbreaking researchers pushing the boundaries of knowledge, IIT Delhi's alumni are a force of transformative leadership across the diverse fields, consistently driving innovation.



About the Program

The imperative for global carbon neutrality has placed Energy Transition at the forefront of international priorities, demanding a comprehensive transformation of energy systems encompassing technological, economic, financial, and regulatory dimensions. IIT Delhi - Abu Dhabi's Master's program in Energy Transition and Sustainability offers a unique opportunity for recent graduates and working professionals from diverse backgrounds to develop crucial knowledge and skills in this vital field.

This multidisciplinary program adopts a system-level approach, providing a broad understanding and the capacity for in-depth exploration of specific areas of interest within the energy transition. Students will engage in cutting-edge research and technologies, with a vision to contribute meaningfully to Energy Transition initiatives across industrial, research, academic, and regulatory sectors. The curriculum is meticulously designed to foster perspectives on technology, economics, policy, and environmental sustainability, equipping graduates to become leaders and innovators in this rapidly evolving domain. This program offers a pathway to work on real-world solutions and contribute to a sustainable future.

Building upon a strong foundation in core engineering and scientific principles, the M.Tech. program delves into the complexities of renewable energy integration, sustainable resource management, climate change mitigation strategies, and the policy frameworks driving the global energy shift. Through a combination of rigorous coursework, hands-on research opportunities, and potential collaborations with industry leaders in the UAE and beyond, students will gain the practical skills and critical thinking abilities necessary to develop and implement innovative solutions for a sustainable energy future. The program fosters a global perspective, preparing graduates to address the unique challenges and opportunities of energy transition Initiatives worldwide.

The program offers two specializations:

- Technologies for Decarbonization *(technology track)*
- Economics, Policy and Planning for Energy Transition *(policy track)*

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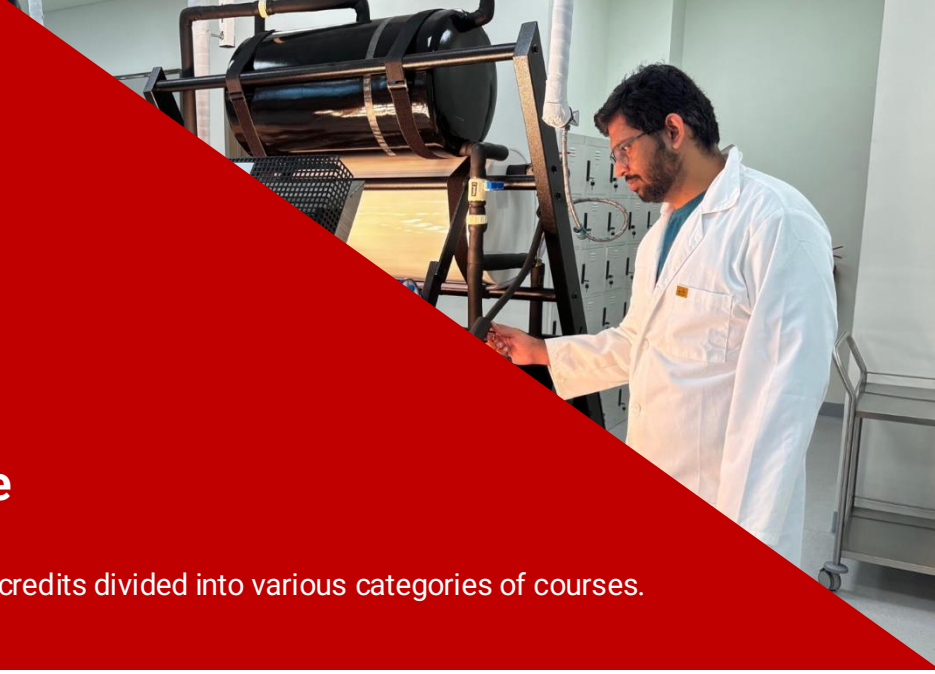
The M.Tech. program is offered in three modes: Full-Time (with Assistantship), Full-Time (with Sponsorship), and Part-Time, as defined below.

Full-Time Students (with Assistantship): Full-time M.Tech. students in this category follow a standard two-year curriculum and are required to be engaged full-time in their Master's program. They also work as Teaching or Research Assistants and receive an attractive stipend for this work. Such students are expected to complete the program in two years. This option is for students who want to focus fully on their studies and gain experience in teaching and research.

Full-Time Students (with Sponsorship): Full-time M.Tech. students in this category are funded by their employer or another organization. They are engaged full-time in their Master's program, and given leave of absence by their parent organisation. Such students are expected to complete the program in two years. They do not receive a stipend or general scholarship from IIT Delhi - Abu Dhabi, but may be eligible for partial tuition waivers. This category is for students whose studies are supported by an external sponsor.

Part-Time Students: Part-time students complete the M.Tech. program over three years while they are working elsewhere. They follow the same curriculum as Full-Time students spread over the three years. No stipend is provided, but they may be eligible for partial fee waivers. Such students are expected to complete the program within three years. This option is designed for working professionals seeking a graduate degree at a slower pace.

Credit requirements are specific to the program and hence the same in all three categories. The progression in the program is different only for part-time students.



Program Structure

The program has a total of 53 credits divided into various categories of courses.

Type of the course	Course Names	Total Credits
Program Core	Energy, Development and Sustainability (3credits) Energy Transition (3credits) Energy Systems Modelling and Analysis(3credits) Economics and Financing of Energy Transition (3credits)	12
Foundation	Basics of Engineering Mathematics (2 credits) Basics of Thermal Engineering (2 credits) Basics of Electrical Engineering (2 credits) Basics of Process Engineering (2 credits) Any of the Three	4
Laboratory, Internship and Seminar	Energy Systems Computational Lab (2.5 credits) Clean energy technologies (1.5 credits) Supervised Industry Internship /project (2 credits) Seminar (1 credit)	7
Projects and Master's Thesis	Major Project Part 1 (3 credits) Major Project Part (12 credits)	15
Program Electives	Five (3 credit) courses of student choice	15
	Total Number of Credits	53

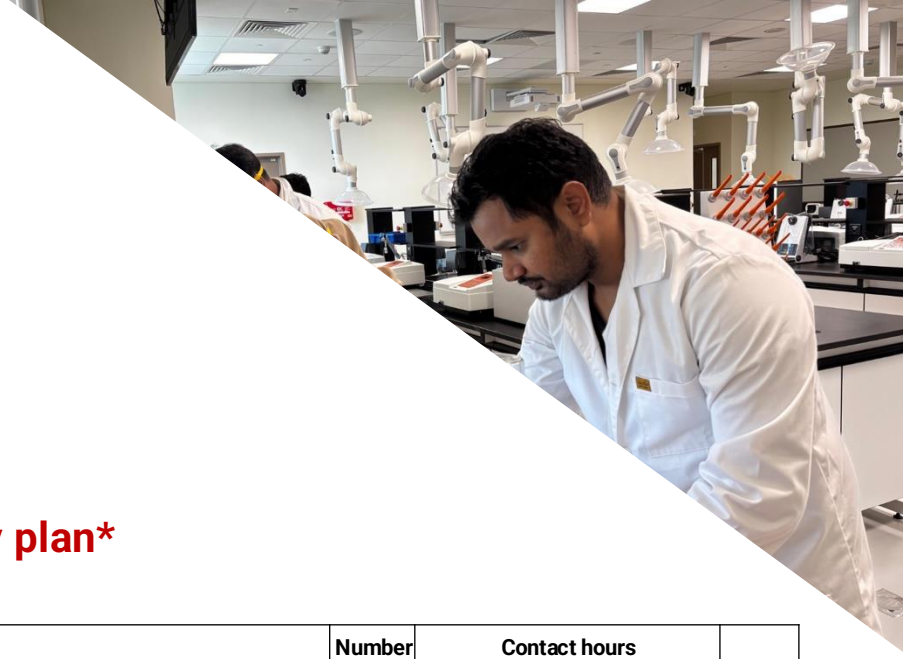
Program Specifications

Students pursuing the M.Tech. Degree can choose to graduate with a **M.Tech. in Energy Transition and Sustainability** (general degree), or opt for a degree with specialization (the specializations being “Technologies for Decarbonization” or “Economics, Policy and Planning for Energy Transition”). The choice of specialisation, which is the student’s prerogative, allows for focused expertise development within the broader field.

To earn a specialization, M.Tech. Students must immerse themselves fully within their chosen area. This requires completing all program electives, undertaking a supervised internship or project, and executing both Major Project Part 1 and Part 2 within the same specialisation area. For a general degree, the student has a choice to choose the elective and project topics from either basket in any combination.

List of Program Electives

Specialization: Technologies for Decarbonization	**Specialization: Economics, Policy and Planning for Energy Transition**
Low Carbon Technologies	Low Carbon Technologies
Decarbonizing Fossil Fuel Sector	Decarbonizing Fossil Fuel Sector
Science of Climate Change	Science of Climate Change
Carbon Capture, Utilization and Sequestration	Developing Renewable Energy Projects
Hydrogen Energy Technologies	Circular Economy and Energy Transition
Process Intensification	Carbon Markets
AI Guided Energy Transition	Energy Policy and Planning
Energy Efficiency	Governing the Energy Transition
Solar Photovoltaic Systems and Applications	Power System Planning
Power Systems and Renewable Integration	Electricity Markets and Power System Operations
Electrochemical Energy Storage for Stationary and Mobility Applications	Forecasting for Power System Operation and Planning
Hybrid Energy Systems and Microgrids	Carbon Accounting and Reporting
Waste to Energy	Regulatory, Policy and Legal Aspects of Energy Transition
Forecasting for Power System Operation and Planning	
Energy Conversion Systems	



Typical two-year study plan*

Sem	Courses						Number of Lecture courses	Contact hours				Credits
			Any One of the three					L	T	P	Total	
I	Energy Development and Sustainability (3-0-0)	Engineering Mathematics (2-0-0)	Basics of Thermal Engineering (2-0-0) Basics of Electrical Engineering (2-0-0) Basics of Process Engineering (2-0-0)	Energy Transition (3-0-0)	Field Visits/ Short Terms courses (need based)		4	10		0	10	10
II	Energy Systems Modeling and Analysis (3-0-0)	Economics and Financing of Energy Transition (3-0-0)	PE-1 (3-0-0)	PE-2 (3-0-0)	Energy Systems Computational Lab. (1-0-3)		4	13		3	16	14.5
	Supervised Industry Internship (project)											2
III	PE-3 (3-0-0)	PE-4 (3-0-0)	Major Project-1 (0-0-6) (credit)	PE-5 (3-0-0)		Clean Energy Technology Laboratory (0-0-3)	Seminar (0-0-2)	3	9		11	20	14.5
IV	Major Project Part-2 (0-0-24) (In exceptional circumstances a student may be allowed to earn equivalent number of credits from the basket of program electives (out of which one course may by allowed as self-study with one to one interaction with faculty). However, in such a case the student would not be eligible for for M. Tech. degree with specialization option.)									24	24	12
TOTAL								**32**	**0**	**38**	**70**	**53**

*Part-time students will complete the same study program spread over 3 years. Classes would be in person, held alongside full-time students. They may be scheduled at time slots convenient to working professionals.

Admission Process

Candidates are encouraged to apply for the program irrespective of their preference for the category. The admission process is multi-stage and will consist of the following:

(a) Shortlisting, based on the Eligibility Criteria
(b) Written examination (where applicable)
(c) Interview, which may have multiple stages

Once a candidate is selected, then her/his entitled scholarship/fee waiver will be considered separately. The relevant details for the admission process are as follows.

Eligibility and Admission Requirements

Category of Application	**Full-Time (with Assistantship)**	**Full-Time (with Sponsorship)**	**Part-Time**
Qualification	Candidates must have completed a **four-year Bachelor's degree** (or equivalent) in any of the engineering disciplines or a **four-year Bachelor's degree** (or equivalent) in any of the following science disciplines: physical sciences, chemical sciences, environmental science, earth science OR **Candidates holding a three-year Bachelor's degree (or equivalent) in engineering (or equivalent) or science disciplines** with at least a two-year Master's degree in the relevant discipline or any of the following science disciplines: physical science, chemical science, environmental science, and earth science		
Cumulative Grade Point Average (CGPA)	**7.5/10, or 3.0/4.0**, or graduating aggregate marks of [75%] or above (or equivalent) in the qualifying degree		
Standardized Test	Minimum score of 350 in the Graduate Aptitude Test in Engineering (GATE) or a minimum quantitative score of 150 in the Graduate Record Examination (GRE)	Not Applicable	Not Applicable
Work Experience Requirement	Not Mandatory	Minimum 1 year post qualification	Minimum 1 year post qualification
Written Test Conducted by IITD-AD requirement (Yes/No)	Yes	No	No
Interview Conducted by IITD-AD requirement (Yes/No)	Yes	Yes	Yes

Applicants who are UAE Nationals or residents and do not meet the standardised test requirements at the time of application are also welcome to apply. If Selected, they may be offered conditional acceptance, with the opportunity to fulfil the requirements within one semester of enrolment.

Fee and Scholarships

Tuition Fee: Per Credit : **AED 3000**
Complete program (2 years/3years): **AED 1,59,000**

Scholarships:			
		International	**UAE National**
Full-Time	Full-Time (with Assistantship)	• Scholarship: AED 5000 per month • Travel: Upto AED 4000 per year • Full tuition fee waiver in the first semester. Attractive merit-based fee waivers in subsequent semesters	• Scholarship: AED 10000 per month • Travel: Upto AED 4000 per year • 100% tuition fee waiver
	Full-Time (with Sponsorship)	• No Scholarship • Fee Waiver will be determined on a case-by-case basis, based on the type of sponsorship	• No Scholarship • Fee Waiver will be determined on a case-by-case basis, based on the type of sponsorship
Part-Time		• No Scholarship • Fee Waiver will be determined on a case-by-case basis	• No Scholarship • 100% Fee Waiver

Important Dates

May 02, 2025	Launch of online application portal
June 11, 2025	Last date for submission of online application
June 16, 2025	Shortlisting of Applicants and Communication
June 22, 2025	Date of the written test (Full time, non - sponsored candidates) Venue: IIT Delhi (Delhi campus), IIT Delhi - Abu Dhabi (More venues can be added based on number of applications from a particular country)
June 23, 2025, to June 27, 2025	Range of dates for the interview
July 5, 2025	Declaration of the result and communication of offers
July 10, 2025	Deadline for acceptance of the offer by the candidate
August 18, 2025	Registration and orientation of the new M.Tech. students

Campus Living

IIT Delhi - Abu Dhabi offers convenient on-campus housing for both male and female students. Single rooms are available at AED 2000 per month, while double-sharing options cost AED 1000 per student monthly; these fees are payable by the student. Notably, residence fees are waived for UAE Nationals. Subsidized meal plans are also provided in the dormitories at an additional cost. To support student life, the campus features dining options, laundry services, a library, a fitness centre, a student lounge, and comprehensive security.

Life in Abu Dhabi

Abu Dhabi, the vibrant capital of the UAE, offers a compelling and enriching experience for both domestic and international students. This modern metropolis seamlessly blends a rich cultural heritage with cutting-edge innovation, providing a safe and welcoming environment for individuals from around the globe. Imagine exploring stunning architectural marvels like the Sheikh Zayed Grand Mosque, immersing yourself in local traditions at bustling souks, or enjoying world-class entertainment and leisure facilities. With its year-round sunshine, pristine beaches, and diverse culinary scene, Abu Dhabi provides a high quality of life and a unique opportunity to experience the dynamic culture of the Middle East.

Beyond the captivating lifestyle, Abu Dhabi is a rapidly growing global hub with a strong focus on education, research, and technological advancement. Choosing Abu Dhabi for your Master's or Ph.D. studies means not only gaining a world-class education but also immersing yourself in a dynamic and forward-looking environment with endless possibilities for personal and professional growth.




List of Documents Required

Type of Document	Full-Time (with Assistantship)	Full-Time (with sponsorship)	Part-Time
Qualification degree and Transcript clearly mentioning the overall CGPA	Required	Required	Required
GATE/GRE Score Card	Required	Not Required	Not Required
Experience Certificate	Not Mandatory	Required	Required
Sponsorship Certificate/Letter**	Not Required	Required	Required
No Objection Certificate**	Not Required	Required	Required
Upon selection after the final round, the successful candidate will be required to provide copies of their valid passport and national identification card (or Emirates ID / Aadhar Card).			

** In case a sponsorship certificate/letter, or a no-objection certificate is not available at the time of application or interview, you may provide an undertaking stating that the same would be submitted at the admission, if selected.

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