INDIAN INSTITUTE OF TECHNOLOGY KANPUR

Department of Sustainable Energy Engineering

PLACEMENT BROCHURE

2026-27

M.Tech batch of 2025-27

A GUIDE FOR RECRUITERS

Engineering the next energy transition

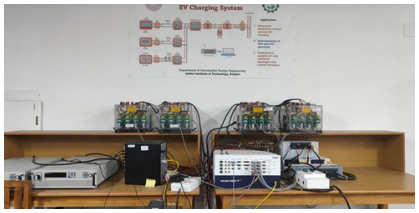
18 M.Tech students graduating in 2027, trained across energy systems, materials, modelling and policy. Each is doing a year-long research thesis; all can join from July 2027.

18	July 2027	1 year	13
M.Tech students, graduating in 2027	available to join	research thesis (72 of 144 credits)	research areas across the batch

RESEARCH AREAS IN THIS BATCH, AS STATED BY THE STUDENTS

AI/ML and data analytics · Solar PV · Batteries and storage · Hydrogen · Energy efficiency · Life cycle assessment · Solar thermal · CCUS · Policy and economics · Energy systems modelling · Energy conversion devices · Wind energy · Recycling and e-waste







In the department's laboratories, left to right: Energy Materials Group, NOVEL / CREATE, TheSLa.



MESSAGE FROM THE HEAD OF DEPARTMENT

A warm welcome to the 2026 Placement Season from the Department of Sustainable Energy Engineering, IIT Kanpur. We look forward to connecting with the organisations seeking innovative, capable, and future-ready talent.

Prof. Ashish Garg, Head, Department of Sustainable Energy Engineering

THE PROGRAMME

What SEE M.Tech students bring

The M.Tech in Sustainable Energy Engineering is a two-year, 144-credit programme split evenly between coursework (72 credits) and a year-long research thesis (72 credits). This brochure covers the batch graduating in 2027. The department was set up in December 2020 and also runs MS by Research and PhD programmes.

Multidisciplinary intake

Undergraduate backgrounds in the batch include mechanical, electrical, civil, chemical and petroleum engineering, computer science and data science. The students are trained together in a common energy curriculum.

A year of thesis research

Half the programme is a thesis: a year of experimental, computational or policy research under a faculty supervisor.

Modelling and data skills

Courses offered include energy systems modelling, finite volume methods, materials modelling and techno-economic assessment. Five of the 18 list AI/ML or data analytics among their research areas.

Experimental and applied work

Students' stated work includes perovskite solar cell fabrication, batteries and electrochemical storage, solar thermal and hydrogen systems, wind turbine optimisation and building energy efficiency. The programme includes industrial and energy-expo visits.

COURSES OFFERED

Core engineering	Thermo-fluid engineering; thermodynamics of energy systems; electrical power engineering; mathematical and computational tools
Energy systems and storage	Physics of energy materials; electrochemical energy systems; hydrogen energy; fuel cells; energy systems modelling and analysis
Renewables and electrification	Solar PV; wind energy; solar thermal engineering; renewable integration and smart power systems; electric mobility; power electronics for EVs; critical materials for the clean energy transition
Sustainable technologies	Bioenergy and biofuels; net-zero energy buildings; CCUS; catalysis for clean energy; recycling of energy materials
Tools for the transition	Materials modelling and simulation; finite volume methods; techno-economic assessment for the low-carbon transition

FIND CANDIDATES BY AREA

AI/ML and data analytics	5	Esha Singh, Bhavesh Inani, Devansh, Rupesh Mishra, Bhairavi Sanjay
Solar PV	4	Arhan Mukherjee, Somdatt Kumar, Esha Singh, Bhavesh Inani
Batteries and storage	3	Vivek Khandebharad, Harsha Kumar, Prajapati Ankit
Hydrogen	2	Somdatt Kumar, Divyanshu Prakash
Energy efficiency	2	Esha Singh, Shantanu Bhardwaj
Life cycle assessment	2	Bhavesh Inani, Prajapati Ankit
Solar thermal	2	Divyanshu Prakash, Balavinayagam K
CCUS	2	Jayesh Maurya, Devansh
Policy and economics	2	Shanmukha Naidu, Rachit Sahu
Energy systems modelling	1	Somdatt Kumar
Energy conversion devices	1	Vinoth Kumar S
Wind energy	1	Abhishek Solanki
Recycling and e-waste	1	Rupesh Mishra

Research areas as stated by the students; a student can appear under more than one. Profiles on page 4.

RESEARCH GROUPS

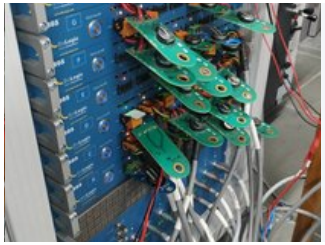
Selected research groups and laboratories

Each name links to the group's website.



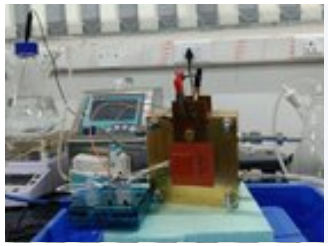
Solar PV Lab

PV materials; perovskite, organic and tandem solar cells; storage; PV recycling



Energy Materials Group

Solid-state and lithium-ion batteries; thin films; building-integrated PV; advanced characterisation



ElecTroDES Lab

Electrodes, electrolysers and membranes: fabrication and simulation



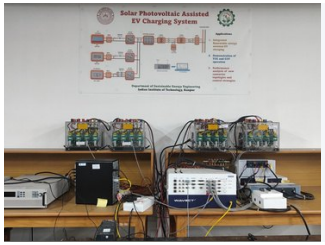
Swachh Lab and MetLab

Materials; circularity; carbon capture (CCUS); power-to-X; integrated devices



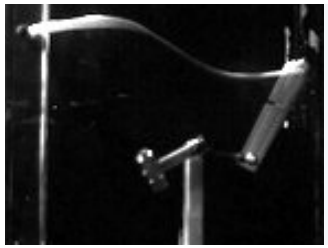
TheSLa

Battery thermal management; heat transfer; solar thermal; thermochemical systems



NOVEL / CREATE

Hybrid AC/DC microgrids; electric vehicles; fuel cells; renewable integration



Wind and Policy

Wind forecasting; wind turbine development; ESG; life cycle assessment; net-zero energy



Aerosol

Air-quality source apportionment; PM2.5

CENTRES AND PARTNERSHIPS Kotak School of Sustainability · Chandrakanta Kesavan Center · UPNEDA Center of Excellence for Green Hydrogen · IITK-JSW Cement CCUS Center · EIL Center · DIA Center of Excellence on Batteries · DST-ICMAP Center · RICE-IITK Collaborative Center · DST / ANRF (formerly SERB) IRHPA CREATE · Industry and civic partnerships

STUDENT PROFILES

M.Tech students graduating in 2027

Grouped by research area, as stated by the students. The LinkedIn and GitHub icons are live links in this PDF. CVs on request from Prof. Sheo Shankar Rai (page 5).



Arhan Mukherjee
Solar PV

Solar PV; thin-film perovskite solar cell fabrication



Somdatt Kumar
Solar PV · Hydrogen · Energy systems modelling

Solar PV; thermochemical water splitting and green hydrogen; energy systems modelling



Esha Singh
Solar PV · AI/ML and data analytics · Energy efficiency

Solar PV; AI/ML; energy efficiency and analytics; sustainable energy systems



Bhavesh Inani
Solar PV · AI/ML and data analytics · Life cycle assessment

Solar PV; data analysis and ML; ESG and life cycle assessment



Divyanshu Prakash
Solar thermal · Hydrogen

Solar thermal systems; hydrogen production



Balavinayagam K
Solar thermal

Solar thermal



Vivek Khandebharad
Batteries and storage

Battery technology; electrochemical energy storage



Harsha Kumar
Batteries and storage

Battery technology; electrochemical energy storage



Prajapati Ankit
Batteries and storage · Life cycle assessment

Lithium-ion batteries; life cycle assessment



Vinoth Kumar S
Energy conversion devices

Energy conversion devices



Jayesh Maurya
CCUS

Carbon capture, utilisation and storage (CCUS)



Devansh
CCUS · AI/ML and data analytics

AI/ML for carbon capture, utilisation and storage (CCUS); data analysis



Abhishek Solanki
Wind energy

Wind turbines and optimisation



Shantanu Bhardwaj
Energy efficiency

Building energy efficiency



Rupesh Mishra
Recycling and e-waste · AI/ML and data analytics

AI/ML-based sorting of e-waste



Bhairavi Sanjay
AI/ML and data analytics

Sustainability and climate, using AI, ML and statistics



Shanmukha Naidu
Policy and economics

Behavioural energy economics and policy



Rachit Sahu
Policy and economics

Policy and economics of critical minerals

ALUMNI

Where SEE alumni work

Reliance New Energy · First Solar · ReNew Power · NTPC · SECI · CREDA · HP · Hitachi Energy · susten by Mahindra · ê · Chakr Innovation · pwc · Deloitte. · GIST Impact · Earthood · Sustainability Economics.ai · The Celestial Earth · Jacobs · EXL · IDBI Bank · Samsung E&A · JSL Jindal Stainless · Caterpillar · Bajaj · DHL Group · Air India · Feedsense AI

IN NUMBERS

27
organisations above employ SEE alumni

11
of them have hired more than one SEE graduate

First Solar
employs the most, 5 alumni; PwC and Reliance 4 each

July 2027
when this batch of 18 M.Tech students can join

Source: the department's alumni list, September 2026. 47 of 55 M.Tech and MS by Research graduates since 2023 list where they are now.

PLACEMENT CONTACTS



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devansh25@iitk.ac.in



Bhavesh Inani
Student placement coordinator
bhaveshi25@iitk.ac.in

Students' Placement Office, IIT Kanpur
+91 512 259 4433 / 4434 · spo@iitk.ac.in

Register your organisation
Scan for the IIT Kanpur placement portal, **placement.iitk.ac.in**

HOW TO RECRUIT FROM SEE

1. **Register**
Register on the IIT Kanpur placement portal, **placement.iitk.ac.in**, run by the Students' Placement Office.

2. **Include SEE**
When you announce a role, list Sustainable Energy Engineering (M.Tech) among the eligible programmes. The department dates from 2020, so it is easy to miss on older branch lists.

3. **Talk to us**
Pre-placement talks are scheduled through the Students' Placement Office. For CVs or questions about the batch, write to Prof. Sheo Shankar Rai.

Information current as of September 2026. Student research areas are as stated by the students.