



# ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY

(A State University of Government of Assam constituted by "Assam Science and Technology University Act, 2009")

Tetelia Road, Near Assam Engineering College, Jalukbari, Guwahati-781013, Assam

Website: [www.astu.ac.in](http://www.astu.ac.in)

No. ASTU/energy/M.TECH-ADMISSION/2025-26/2025/

Dated: 30.08.2025

## NOTIFICATION

All the registered candidates who have applied for admission into In-campus M. Tech (Computer Science and Engineering) & M. Tech (Energy Engineering) program, are hereby informed that the M Tech admission process for in-campus M Tech program will be started as per the following schedule:

1. **Direct admission process:** All the GATE qualified candidates are selected for direct admission into the In-campus M.Tech programs in Computer Science & Engineering and Energy Engineering. The last date of admission for GATE qualified candidates is **on or before 6<sup>th</sup> September 2025**. The candidates are requested to participate in the admission process during the Office hour (i.e. 10.00 AM to 5.00 PM) for the above-mentioned period.
2. **ASTU Engineering Entrance Test (ASTU-EET) 2025:** For the remaining candidates (i.e. Non-GATE candidates), the ASTU Engineering Entrance Test (ASTU-EET)-2025 will be held on 04<sup>th</sup> September, 2025. The ASTU EET-2025 qualified candidates will be eligible for enroll into the In-campus M Tech programs.

For any enquiry: 1. Email: [admission@astu.ac.in](mailto:admission@astu.ac.in)

2. Contact number: 9101676970 / 700382511

[Contact Timing: 10.00 A.M -5.00 P.M on all working Days]

Registrar, ASTU



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## **IMPORTANT INSTRUCTIONS**

### **ASTU Engineering Entrance Test (ASTU-EET) 2025**

- ASTU-EET-2025 will be held on 4<sup>th</sup> September, 2025 from 11:30 A.M. to 12:30 P.M. at the campus of Assam Science and Technology University, Guwahati.
- Result will be declared on the same day in the university website.
- Admission for the qualified candidates will be held on the specified date and time announced by the University.
- Kindly bring the print out copy of the email sent by the university to appear the entrance test. No separate admit card will be issued for the candidates to appear the entrance test.
- Kindly carry any photo identity card (Driving license, Adhar card, Pan card, voter card etc) to appear the entrance test. Kindly bring both Original and a photocopy of the photo identity card.
- There will be only 50 Multiple choice questions (MCQ) with a duration of 01:00 Hrs.

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## **SYLLABUS FOR ASTU-EET 2025**

### **A) For M. Tech. in Computer Science and Engineering:**

#### **Section 1: Engineering Mathematics (10 questions each carrying 1 marks)**

Numerical Methods: Numerical solutions of linear and non-linear algebraic equations. Integration by trapezoidal and Simpson's rule. Single and multi-step methods for numerical solution of differential equations.

#### **Section 2: General knowledge and current affairs on Computer Science & Engineering (10 questions each carrying 1 marks)**

#### **Section 3: Technical Questions (30 questions each carrying 1 marks)**

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

Operating System: Processes, threads, inter process communication, concurrency and synchronization. Deadlock. CPU scheduling. Memory management and virtual memory. File systems.

Database Management System: ER model. Relational model: relational algebra, tuple calculus, SQL. Integrity constraints, normal forms. File organization, indexing, Transactions and concurrency control.

Computer Networks: Concept of layering. LAN technologies (Ethernet). Flow and error control techniques, switching. IPv4/IPv6, routers and routing algorithms (distance vector, link state). TCP/UDP and sockets, congestion control. Application layer protocols (DNS, SMTP, POP, FTP, HTTP). Basics of Wi-Fi. Network security: authentication, basics of public key and private key cryptography, digital signatures and certificates, firewalls.

Algorithms: Searching, sorting, hashing. Asymptotic worst-case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide and conquer. Graph search, minimum spanning trees, shortest paths.

**B) For M. Tech. in Energy Engineering:**

**Section 1: Engineering Mathematics (10 questions each carrying 1 marks)**

Numerical Methods: Numerical solutions of linear and non-linear algebraic equations. Integration by trapezoidal and Simpson's rule. Single and multi-step methods for numerical solution of differential equations.

**Section 2: General knowledge and current affairs on Energy and Environment (10 questions each carrying 1 marks)**

**Section 3: Technical Questions (30 questions each carrying 1 marks)**

Basics of energy: Different forms of energy, energy conversion process, indirect and direct energy conversion; Different energy sources; Conventional energy systems: engines, power plants, various methods of power generation;

Basics of Thermodynamics: Laws of thermodynamics and applications Heat Transfer Operations: Heat Transfer by Conduction, Convection (natural & force convection), Radiation, Boiling, Condensation, Evaporation, Basics of Heat transfer equipment, Heat Exchangers

Fluid Mechanics: Fluid flow phenomena, Basic equation of fluid flow, Flow of incompressible fluid in conduits, conservation equations for mass, momentum and energy; Uses of non-dimensional numbers to describe flow conditions; Theory and principles of flow measuring devices; Viscous flow in a pipe, Flow through packed and fluidized bed

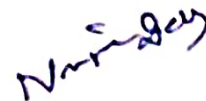
Electrical Machines: Principles of Transformer, motor and generators, characteristics and applications; DC machines: characteristics and applications.

## Documents to be Submitted/Produced at the Time of Counseling/Admission

The candidate must submit/produce the following documents (but not limited to) at the time of counseling/admission:

- a) Marksheets and Certificates of Academic Qualifications from HSLC (10th std) onwards
- b) Proof of Date of Birth (DOB), Proof of Last Semester Appearing & No running backlog in BE/B.Tech
- c) Valid GATE score card, Relevant certificate issued by the competent authority if seeking admission under any reserved category (as mentioned)
- d) Declaration by the applicant that he/she is not employed/engaged in any regular/contractual/part-time job of any organization/institution.
- e) Sponsorship/No Objection Certificate issued by the employer, if the candidate is employed
- \*f) Migration Certificate from the last attending institution
- \*g) Character certificate from the head of last attending institution
- \*h) Anti Ragging affidavit

**NOTE:** The documents marked with \* sign can be produced later if it is currently not available with the candidate during the admission.



Registrar, ASTU