



GAUHATI UNIVERSITY
INSTITUTE OF SCIENCE AND TECHNOLOGY

GOPINATH BARDOLOI NAGAR :: GUWAHATI-781014 :: ASSAM

FAX: 0361-2700311

website : www.gauhati.ac.in

B.Tech., B.Tech.-Lateral Entry, M.Tech. & M.S. Admissions: 2015-16

All B.Tech. and M.Tech. Programmes are approved by AICTE, and updated extension of approval for 2015-16 has been granted vide letter no.: Eastern/1-2452796655/2015/EOA Date: 24-Apr-2015

Message from the Vice Chancellor:

Our endeavor is to give best academic supports, state-of-the-art laboratory and research facilities, including audio-visual assisted classroom environment. A regular schedule of 9-30 to 4-30, and supplementary additional hours of laboratory and advising facilities facilitate barrier free academic expositions to the students. Gauhati University, as the first and premier University of the entire North East India region reiterates its accountability towards empowering the people by providing newer and time-demanding programmes of studies. The B.Tech and M.Tech. programmes in different disciplines have been catering the need of the local people, and I assure the students and guardians the provisions of best possible academics for their overall career.

Dr. Mridul Hazarika
Vice Chancellor
Gauhati University

Admission Process

Admission process for B.Tech., B.Tech. (Lateral), M.S. and M.Tech. courses of Gauhati University Institute of Science and Technology for the session 2015-16 starts on 2nd July, 2015.

B.Tech. admissions are from CEE Counseling as per schedule already notified by Director of Technical Education, Assam. There is no need for submission of forms for B.Tech. admission before counseling. Since the admission will be through the common counseling of the CEE from 2nd July, 2015, the allotted students from CEE may collect and submit the form at the temporary counter, CEE Counseling Venue during the counseling days.

Applicants for B.Tech. (Lateral) and M.Tech. admissions will have to appear entrance test on 13th July, 2015, for which online applications may be submitted from 3rd July to 11th July (till 12 noon) through the university website www.gauhati.ac.in.

For M.S. programmes, applicants may collect and submit the prescribed form from/at the GUIST office from 13th to 20th July, 2015.

Course	Eligibility	Admission Criteria
B.Tech. (4 yrs.)*	As per CEE (Assam) norms	As per CEE rank
B.Tech (lateral entry to 2nd year) *	3-year Polytechnic Diploma or equivalent in the concerned branch with first class or equivalent grade	Admission Test to be conducted by GUIST on 13 th July, 2015. For M.Tech.-part time category, minimum 3 years professional experience required. GATE qualified candidates will be given preference for admission for M.Tech. Details of Entrance tests are available in the website
M.Tech. in Biotechnology (2 yrs)	B.Tech./M.Sc. (Biotechnology and/or allied subjects)	
M.Tech. in- i. Signal Processing and Communication ii. Signal Processing and VLSI Design (2 yrs-Full Time and Minimum 3 Yrs-Part Time)	B.Tech./B.E. in Electronics & Communication/Instrumentation /Electrical or M.Sc.(El.Sc./ECT/Instr.) or Equivalent	
M.Tech. in Information Technology (2 yrs-Full Time and Minimum 3 Yrs-Part Time)	B.E./B.Tech. in CSE/IT/ECE/MCA/M.Sc.-IT/ M.Sc.-CS/ M.Sc.-"Maths & Computing" or Equivalent	
M.S. (2 yrs.): Chemical Science, Mathematical Science, Physical Science	4 years B.S. in relevant subject passed from Gauhati University.	On the basis of marks obtained in B.S.
*In Electronics and Communication Technology, Computer Science and Engineering, Biotechnology, Information Technology		

Number of Seats

Branch	No of seats
B.Tech. in Electronics and Communication Technology	36
B.Tech. in Computer Science & Engineering	36
B.Tech. in Information Technology	36
B.Tech. in Biotechnology	18
M.Tech. in Signal Processing and Communication	18
M.Tech. in Signal Processing and VLSI Design	18
M.Tech. in Information Technology	18
M.Tech. in Biotechnology	10
M.S. in Chemical Sc, Physical Sc, Mathematical Sc.	10 in each

M.Tech. Part-Time Category: Candidates must have at least 3 years professional (Teaching/research/technical) experience in the discipline of his or her qualification/branch applied for. The professional experience must be in an organization of repute with its area of working/service in the concerned field of studies. Candidate has to submit a No Objection Certificate from the employer stating that the applicant will be allowed to attend classes at the GU IST for the courses registered. Classes and labs for the Part Time students are held on normal class days together with the full time students, but with a flexibility of opting for limited number of courses., so that the part time students need to devote only part of the total class-hours during the week. Attendance is mandatory similar to the full time students, but only for the opted/registered courses. The official format of the No Objection Certificate for Part Time Category applicants should be collected from the website.

Application forms for admission: Students who are allotted from the CEE counselling, and those selected through the GUIST M.Tech./B.Tech-Lateral Entrance test, have to fillup and submit the prescribed application forms for admission. Admission forms are available in the website as well as GUIST Office.

Reservation of Seats: Reservation shall be as per G.U. Rules. The candidates seeking admission on reserved quota viz. SC, ST, OBC/MOBC shall be given relaxation up to 5% (Five percent) of the marks prescribed for eligibility criteria. The relaxation will not be applicable to candidates seeking admission on any other reserved quota.

Reservation for Permanent residents of Assam

- | | |
|-----------------------------|--------------------|
| a. Scheduled Caste | 7% |
| b. Scheduled Tribe (Plains) | 10% |
| c. Scheduled Tribe (Hills) | 5% |
| d. O.B.C. and M.O.B.C. | 15% |
| e. Differently able persons | 3 seats in B.Tech. |

Other Reserved Seats:

7 seats in B.Tech.: 1 seat for each of the states of North East other than Assam. Please contact respective State's Directorate of Higher Education/Technical Education.

Employee of GU*: 1 seat in B.Tech.

Students with Extra and Co Curricular efficiency*: 1 seat in B.Tech.

Fringe Village *: 1 seat in B.Tech.

For Masters Programmes, the Gauhati University follows the following pattern of distribution of seats among the GU (Gauhati University) graduates and OU (Other University) graduates:

80% of the seats are filled up from graduates of GU, [1 seat in each of the special reserved categories--EC, GU Employee category, and Fringe Village Category*]. 20% of seats are filled up from graduates of OU as per up to date GU rules.

* Extra forms for these categories (GU Employee, EC, and Fringe Village) are available in the office of the Secretary, University Classes, and need to be submitted with the admission form.

Submission of filled-in forms and Admission:

B.Tech.	Allotted students from CEE counseling	Admission (on allotment from CEE counseling, deposit Counseling Fee of Rs. 1000/- and then proceed for admission)	2 nd to 9 th July, 2015	CEE Counseling Desk and GUIST Office
B.Tech. 2 nd Counseling at GUIST	CEE qualified and fulfilling CEE norms	Counseling cum Admission	11 th July, 2015 at 10 AM	GUIST
B.Tech-Lateral Entry	All eligible applicants	ONLINE application for appearing Entrance Test (13 th July)	3 rd to 11 th July, 2015	www.gauhati.ac.in All further updates will be notified in the website only
M.Tech.	All eligible applicants	ONLINE application for appearing Entrance Test (13 th July)	3 rd to 11 th July, 2015	www.gauhati.ac.in All further updates will be notified in the website only
M.S.	4 Yrs. B.S. passed outs of GU	Submission of Application forms	Collect and submit from 13 th to 20 th July, 2015	GUIST Office
Applications for other reserved categories (GU Employee, Fringe Village, Extra and Co curricular, Differently Able) are to be submitted in the office of the GUIST within 13 th July, 2015.				

Documents to be attached to Admission Form: Please note, no documents are required for applying online for appearing GUIST M.Tech., B.Tech-Lateral Entrance Test. Following documents are to be submitted only by the allotted/selected candidates while submitting admission form:

- Self attested copies of the following:
 - Admit card of CEE (for B.Tech. only)
 - Permanent Residence Certificate (PRC) (for B.Tech.)
 - HSLC pass certificate/Admit Card as proof of age
 - Higher Secondary pass certificate
 - Mark sheet of HSLC examination
 - Mark sheet of Higher Secondary examination
 - Caste certificate for SC/ST/OBC candidates from appropriate authority
 - Mark sheet and certificate of diploma exam for B.Tech. Lateral Entry
 - Mark sheet and certificate of the respective qualifying exam for M.S. and M.Tech.
 - Appropriate documents for applying to the other reserved categories
 - Gap certificate wherever applicable

Uniform: Students admitted to the B.Tech. Programmes will be required to wear uniforms prescribed by the University. Particulars in this regard will be announced during the time of admission.

Hostel Facilities: Few hostel seats may be available in the University hostels depending on the availability. Rented rooms and houses are nowadays available in the surrounding areas of the University, where many University students stay.

Schedule of Fees

Sl.	Fee Head	B.Tech.		M.S. and M.Tech.	
		Odd Sem.	Even Sem.	Odd Sem.	Even Sem.
01	Admission Fee (Annual)	4000.00	-	4000.00	-
02	I Card Fee (Annual)	100.00	-	100.00	-
03	Library Card Fee (Annual)	100.00	-	100.00	-
04	Library Fee (Annual)	700.00	-	700.00	-
05	Student Welfare Fee (Annual)	500.00	-	500.00	-
06	Course Fee (Semester)	15000.00	15000.00	10000.00	10000.00
07	Laboratory Fee (Semester)	1500.00	1500.00	1500.00	1500.00
08	Exam Fee (Semester)	1200.00	1200.00	1200.00	1200.00
	Total in Rs. :	23100.00	17700.00	18100.00	12700.00

General Information and Rules

1. No student shall be admitted to any course of studies as aforesaid if he/she is found to have indulged in activities detrimental to academic interest.
2. No student shall be admitted to more than one course in the same shift.
3. A student who is found to violate University rules shall be liable to expulsion.
4. If a student's involvement in any incident of ragging comes to the notice of the authority, such a student would be given liberty to explain, and if his/her explanation is not found satisfactory, that student will be expelled from Gauhati University.
5. A student who is found to have indulged in consumption of drugs or intoxicating drinks, gambling and other immoral activities shall be liable to expulsion.
6. Students admitted to various courses of studies are required to participate in instructions (Lectures, tutorials, seminars, laboratory works and other academic activities) as prescribed in the relevant Regulations and shall be expected to participate in the co-curricular and Extra Curricular activities organised by Department or by the University. They are expected to appear at the examination due at the end of the course of studies. Students who fail to do so without assigning sufficient reasons to the satisfaction of the competent authority shall not be permitted to continue their studies in the following year.
7. Attendance in Classes is compulsory. To be eligible to sit for the Examinations the students should have at least 75% of attendance of lectures (separately for the theoretical and practical classes) as prescribed in the concerned Regulations.
8. Each Academic session will run as per the Academic Calendar.
9. Fees are to be paid for admission by the candidates, if selected on the date as notified, other-wise seats will be cancelled and filled up by candidates next in the list.
10. The admission will be granted in accordance with the provision made in the Ordinance and Regulations and other rules of the University.
11. The students shall have to comply with the Regulations for the course, Rules and Orders as may be prescribed by the University authority from time to time.
12. The decision of Executive Council on all matters relating to students' indiscipline shall be final and binding.

Contact:

Director Incharge: Prof. Shikhar Kr. Sarma
Gauhati University Institute of Science and Technology (GUIST)
(Old BT Hostel Premises)
Guwahati 781014, Assam, India; www.gauhati.ac.in

Departments:

1. **Department of Applied Sciences:** The Department of Applied Sciences was recently formed by merging four erstwhile Departments of Physical Science, Chemical Science, Mathematical Science and Biological Science. Presently the department is dealing with the core compulsory and common courses of the B.Tech. students, as well as the courses of the ongoing BS and MS programmes in different disciplines admitted in the previous four departments. The Department has faculty members in different disciplines of Physical, Chemical, Mathematical and Biological Sciences. Students from the Department have been undertaking their curriculum projects in different national institutes and centres of repute. Many of them have also cleared competitive examinations, such as, GATE, JEST, JAM etc. The departmental faculties are also actively involved in research works, both theoretical and experimental, in Astronomy & Astrophysics, Nonlinear Dynamics, Condensed Matter Physics, Material Science, Nanoscience and Nanotechnology, frontier research areas of Chemical Science, Mathematical Science, and Biomedical Sciences.

At present, seven numbers of sponsored projects are in progress in areas of Chemical Science and one in area of Mathematical Science. The Department is also running six projects in areas of Medical Biotechnology at present, in collaboration with Maulana Azad Medical College (MAMC), New Delhi; B. B. Cancer Institute, Guwahati; Assam University, Jamia Millia Islaima, New Delhi and other institutes of repute.

HOD: Prof. Manab Deka

Email: drmanabdeka@gmail.com

2. **Bioengineering and Technology:** The Department of Bioengineering and Technology, Gauhati University was established in the year 2009 with the aim to promote academic and research programmes in Biotechnology and Bioengineering through up-to-date curricula for developing trained manpower in its various branches. The department has both undergraduate (B.Tech.) and postgraduate (M.Tech. and Ph.D.) programs. Admission of students is through entrance test. The Department of Bioengineering and Technology is offering extensive infrastructure and research facilities to the student community. All the faculty members of this department are actively involved in their routine academic as well as research works.

Courses:

1. B. Tech in Biotechnology
2. M. Tech in Biotechnology
3. Ph. D. in Biotechnology

Facilities: The Department is equipped with state of the art laboratories consisting of Animal tissue culture laboratory, Plant tissue culture laboratory, Molecular diagnostic facility, Molecular biology laboratory, Microbiology laboratory etc. Currently seven extramurally funded research projects are going on in the Department in collaboration with various national and international institutes.

HOD Incharge: Dr. Debabrat Baishya

Email: drdbaishya@gmail.com

3. **Electronics and Communication Engineering:** The Department of Electronics and Communication Engineering was constituted during the session 2009-10. The primary strength of the department is in the areas of Soft-computing, Digital Signal Processing, Communication, Computer Vision, Bio- medical Signal Processing and VLSI Design. The Department presently has ergonomically designed laboratories and related facilities to fulfil the requirements of B.Tech, M.Tech programmes. The department has multiple labs each of seating capacity of around 50, a computer lab equipped with related software, microprocessors, microcontrollers and related embedded systems lab. Independent computing facilities are provided to perform simulations based design using MATLAB R2010a, LABVIEW, REMCOM wireless suite, Mathematica, Multisim etc. softwares of which complete support and related services are available. The department also has a DSP Processor lab constituted by TMS and ADSP21XX series processors. Students of BTech 4th year and MTech 2nd year are encouraged to take up research based topics for project courses which terminates in a thesis, parts of which are also communicated to national/international conferences/journals. The department also has well-stocked library of its own. All classrooms and laboratories are equipped with contemporary audio-visual aids. The M.Tech programme is with two distinct specializations viz. Signal Processing and Communication (SPC) and Signal Processing and VLSI Design (SPV).

Courses:

1. B.Tech. in Electronics and Communication Technology
2. M.Tech. Signal Processing and Communication (SPC)
3. M.Tech. Signal Processing and VLSI Design (SPV)
4. PhD in Electronics and Communication Engineering

Facilities:

Electronics and Project Lab: It has provisions for about 50 students. It is mainly intended to run lab courses of first three years of the BTech programme. It has regulated DC power supplies, CROs, DSOs, Function generators etc. suitable upto 10 MHz and a few DSOs up-to 20 MHz. The Project Lab has provisions for advance design and project works supporting upto 50 students. It is equipped with DDS function generators, DSOs, power supplies etc. It also has Computers for interfacing, simulation, software-based design and fabrication etc.

Microprocessor Lab: Provisions for 50 students for experiments using 8085 and 8086 and required peripherals.

Microcontroller Lab: It is equipped with 8051 and PIC Microcontroller.

DSP Processor Lab: Equipped with ADSP-21XX, ADSP BF533, TMS320C540 and TMS320C67XX Processors.

Microwave Lab: It has provisions for 20 students for experiments using microwave benches.

Communication Lab: Provisions for 50 students for analog & digital communication experiments using trainer kits.

Simulation Lab: It has 50 nos. of computer for design based work using MATLAB, LABVIEW, PSPICE, MICROSIM, MULTISIM etc. It also has provisions for VLSI design using different tools.

Signal Processing and Image Processing Lab: It is intended to support course related to signal and image processing of BTech and M.Tech. programmes.

Mobile Communication Lab: It is equipped to perform practical and design of mobile communication experiments.

HOD Incharge: Jyoti Prakash Medhi

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4. **Department of Information Technology:** The Department of Information Technology was established in 2009, to facilitate state of the art infrastructure for different Undergraduate, Postgraduate and Research programmes in the field of Computer and Information Technologies. Computer Science, Computer Engineering and Information Technology have been widely accepted disciplines among the students fraternity across the globe. The growing demands of trained and skilled personals in those fields have been motivating and inspiring the students to undertake different programmes of studies. Looking at the need of aspiring students of the region, different programmes have been started meeting the demands at different levels of studies. The Postgraduate and Research programmes are designed to build the capacity of the region in terms of human resource and local intellectual and technological resource developments.

Courses:

1. B.Tech. in Computer Science & Engineering
2. B.Tech. in Information Technology
3. M.Tech. in Information Technology
4. Ph.D. in Information Technology

Facilities:

The department of Information Technology has well equipped laboratories with GNU/Linux system and MS Windows systems for general purpose computing. Along with the general computing infrastructure, the department is also equipped with Network Lab, Simulator based Embedded System Lab, Natural Language Processing Lab, Cryptography and Network Security Lab, Application Development Lab and High Performance Computing Facilities. The laboratories are connected with 24X7 high speed Internet. The department also offers in-campus secured wifi facilities to the students and staff. Theory and laboratory classes are taken in modern classroom environment with audio visual facilities. Current Research activity in the department includes Local Language Search Engine development, Language Technologies, Speech technologies, Smart Environment, Wireless Network and Machine Translation.

HOD: Prof. Shikhar Kr. Sarma

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