GAUHATI UNIVERSITY
INSTITUTE OF SCIENCE AND TECHNOLOGY

GOPINATH BARDOLOI NAGAR :: GUWAHATI-781014 :: ASSAM

website : www. gauhati. ac. in

B.Tech., B. Tech.-Lateral Entry, M.Tech. & M.S. Admissions 2017-18

All B.Tech. and M.Tech. Programmes are approved by AICTE, and updated extension of approval for 2017-18 has been granted vide letter no.: Eastern/1-3324248386/2017/EOA ; Dated: 30-March-2017

Message from the Vice Chancellor:

The ever-expanding frontiers of knowledge herald us to explore them with greater zeal as we venture to access them in fascinating new ways. Knowledge dissemination is the primary objective of a university, and our endeavor has always been to offer the best possible platform to learners, students and scholars here.

Our endeavor is to give best academic supports, state-of-the-art laboratory and research facilities, including audio-visual assisted classroom environment. 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 creating the need of the local people, and I assure the students and guardians the provisions of best possible academics for their overall career.

I hope, the participation in the academic milieu of GUIST will be intellectually challenging and academically rewarding.

Dr. Mridul Hazarika
Vice Chancellor
Gauhati University

Admission Process

Admission process for B.Tech., B.Tech. (Lateral), M.S. and M.Tech. courses offered at the Gauhati University Institute of Science and Technology for the session 2017-18 is in the progress.

B.Tech. admissions are inducted through CEE counseling which will be notified by the 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 CEE common counseling, the allotted students from CEE may collect and submit the form at the temporary counter of GU, CEE Counseling Venue, during the counseling days, or at GUIST office in GU campus.

Applicants for B.Tech. (Lateral) admission will have to appear an entrance test on 20th July, 2017, Thursday, for which **applications may be submitted from 3rd July to 14th July, 2017** in the GUIST office.

For M. Tech. and M.S. programmes, applicants may go through the GU website for online submission of forms.

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 respective departments of GUIST on 20th July, 2017.
M.Tech. in Biotechnology (2 yrs)	B.Tech./M.Sc. (Biotechnology and/or allied subjects) or B.S.(Medical Biotechnology)	Admission criteria, dates etc. are to be notified by Gauhati University in the website and GU Prospectus-2017
M.Tech. in i. Signal Processing and Communication ii. Signal Processing and VLSI Design (2 yrs)	B.Tech./B.E. in Elect. & Commn./ Instrumentation /Electrical Or M.Sc. (El.Sc./ECT/Instr.) Or Equivalent	
M.Tech. in Materials Science and Technology (2 yrs)	B.S.(4 yrs), M.Sc., B.Tech. in relevant branches	GATE qualified candidates will be given preference for admission for M.Tech. Details of Entrance tests are available in the website.
M.Tech. in Information Technology (2 yrs)	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 Engineering, Computer Science and Engineering, Biotechnology, Information Technology

Number of Seats

Branch	No of seats
B.Tech in Electronics and Communication Engineering	36
B.Tech. in Computer Science & Engineering	36
B.Tech. in Information Technology	36
B.Tech in Biotechnology	28
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.Tech in Material Science and Technology	18
M.S. Chemical Sc, Physical Sc, Mathematical Sc.	10 in each

Application forms for admission: Students who are allotted from the CEE counselling and those selected through GUIST B.Tech.-Lateral Entrance test, have to fill-up and submit the prescribed application forms for admission. Admission forms are available in the websites as well as at GUIST office. For M.Tech. and M.S. students may visit GU website www.gauhati.ac.in for information and submission of online form.

Fee for entrance for B.Tech(Lateral): Rs. 300/- has to be paid as entrance fee in the form of Demand Draft in favour of **The Registrar, Gauhati University** payable at Guwahati.

In case of cash payment:

i) Along with the application form, the candidate has to collect bank pay in slip from the GUIST office.

ii) Then the prescribed fee has to be deposited at SBI, GU branch or at the GU cash counter.

iii) Institute copy of the bank pay in slip has to be submitted at the GUIST office and GU receipt has to be collected.

iv)Original GU receipt has to be submitted along with the filled in application form.

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	4 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. This demarcation may be altered if seats remain vacant in any of reserved categories.

* 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	**Will be notified after notification of CEE counseling**	CEE Counseling Desk and GUIST Office
B.Tech.-Lateral Entry	All eligible Applicants	Online Application for appearing Entrance Test (**20th July, 2017**)	**3rd July to 14th July,2017**	www.gauhati.ac.in All further updates will be notified in the website only
M.Tech.	All eligible Applicants	Application for appearing Entrance Test	**To be notified in the website and GU Prospectus-2017**	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 online Application Forms		
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 **14th July, 2017.**				

Documents to be attached to application form: Following documents are to be submitted only by the candidates while submitting admission form:

- Self-attested copies of the following:
    - Admit card of CEE (for B.Tech. only)

- o Permanent Residence Certificate (PRC) (for B.Tech.)
- o HSLC pass certificate/Admit Card as proof of age
- o Higher Secondary pass certificate
- o Mark sheet of HSLC examination
- o Mark sheet of Higher Secondary examination
- o Caste certificate for SC/ST/OBC candidates from appropriate authority
- o Mark sheet and certificate of diploma exam for B.Tech. Lateral Entry
- o Mark sheet and certificate of the respective qualifying exam for M.S. and M.Tech.
- o Appropriate documents for applying to the other reserved categories
- o 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 on the University, where any University students stay.

Schedule of Fees

B.Tech.:

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:	**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 or any other disciplinary action.
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 or anti-social 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 organized 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 of GU.
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:

Prof. M. Deka, Director
Gauhati University Institute of Science and Technology
(GUIST New Building)
Guwahati 781014, Assam, India
Contact no. : +913612672211
www.gauhati.ac.in

Departments:

1. **Department of Applied Sciences:** The Department of Applied Sciences was re-structured in 2014by merging four erstwhile Departments of Physical Science, Chemical Science and Mathematical 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, MS and M.Tech programmes in different disciplines. The Department has faculty members in different fields of Physical, Chemical and Mathematical 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, CAT 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, fi'ontier 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.

Programmes:
1. M.Tech. in Materials Science and Technology
2. M.S. in Chemical Science, Mathematical Science and Physical Science.
3. Ph.D.

HOD: Dr. Eeshankur Saikia

Email: eeshankur@rediffmail.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. All the faculty members of this department are actively involved in their routine academic as well as research works.

Programmes:
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: Dr. Kandarpa Kr. Saikia

Email: kksaikia@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 has ergonomically designed laboratories and related facilities to fulfill 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. software's of which complete support and related services are available. The department also has a DSP Processor lab constituted by TMS and ADSP2l XX series processors. Students of B.Tech. 4th year and M.Tech. 2nd year are encouraged to take up research based

topics for project courses which terminate 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).

Programmes:

1. B.Tech. in Electronics and Communication Engineering
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 B.Tech. 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-2lXX, 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, MULTTSIM 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 B.Tech. and M.Tech. programmes.

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

HOD i/c: Jyoti Prakash Medhi

Email: jpmedhil@gmal.com

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.

Programmes:

1. B.Tech. in Computer Science & Engineering
2. B.Tech. in Information Technology
3. M.Tech. in Information Technology
4. PhD. 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 officers 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 i/c: Mirzanur Rahman

Email: mizanurrahman@gmail.com