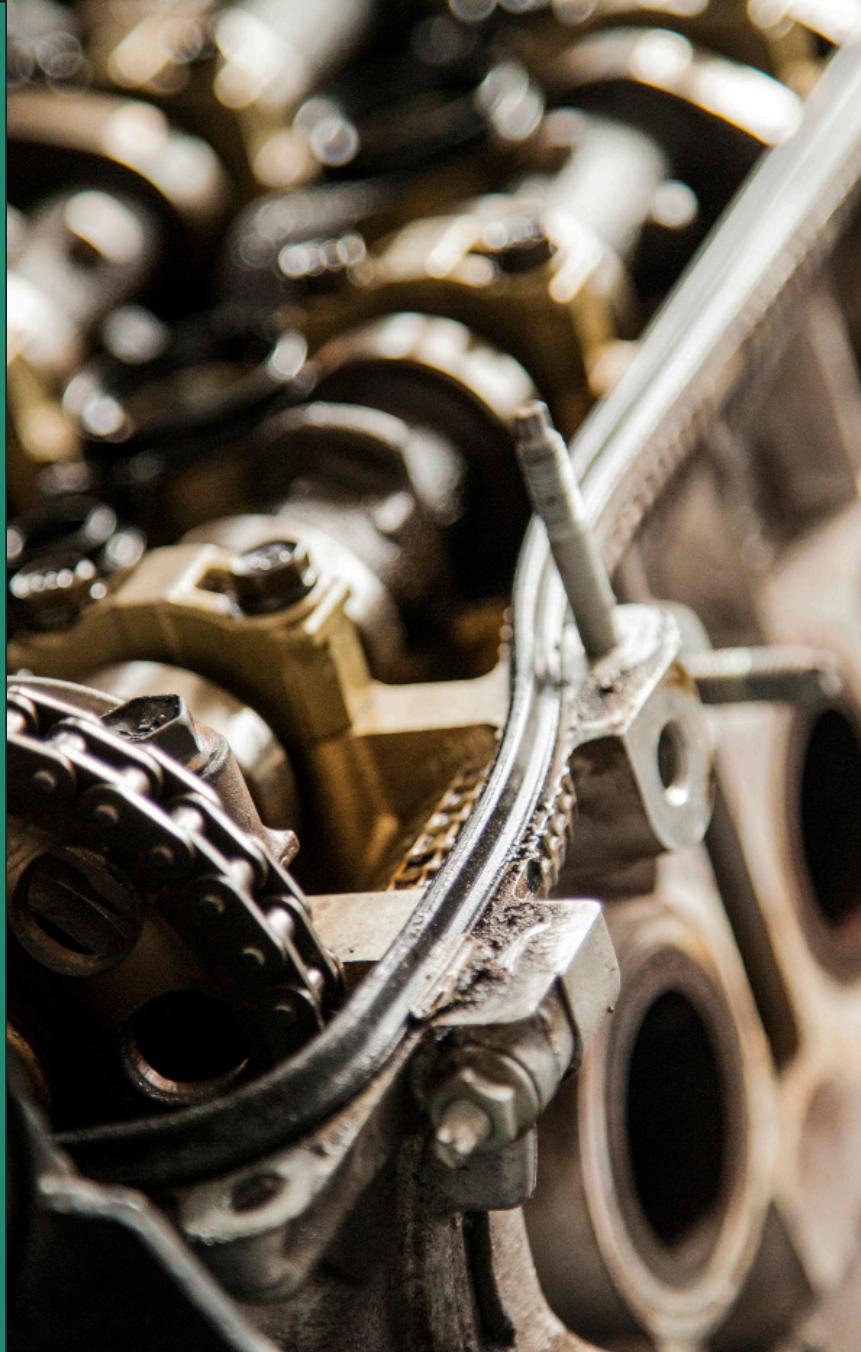


ENGINEERING / MANAGEMENT / COMPUTER APPLICATION

# PROSPECTUS 2017-18



**GIRIJANANDA CHOWDHURY INSTITUTE OF  
MANAGEMENT AND TECHNOLOGY**  
Guwahati

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# VISION OF THE INSTITUTE

To produce competent, disciplined and quality engineers and administrators having the drive, skill and confidence to become global pioneers of tomorrow.

# MISSION OF THE INSTITUTE

To be leader in providing quality education and training in engineering, technology and management by continuous development of infrastructure and enhanced state-of-the art equipment and facilities to satisfy its stakeholders – the students, parents, industry and the society. The institute is committed to enable meaningful learning by providing intellectually inspiring environment of learning, research, innovation, and Professional activity.



# GOVERNING BODY

The details of the Governing body of Shrimanta Shankar Academy for Girijananda Chowdhury Institute of Management and Technology, Guwahati.

(As per Appendix- 19 of AICTE approval Process handbook 2013-14)

SI No	Nominee	Name of the Member	Portfolio
1	Society	Mr. Ratul Das President, SSA, Guwahati	Chairman
2	Society	Dr. Sushanta Kumar Dutta Principal, GIMT, Guwahati	Member Secretary
3	Society	Mr. Bijoyananda Chowdhury Secretary, SSA, Guwahati	Member
4	Society	Mr. Arupananda Chowdhury Member, SSA, Guwahati	Member
5	Society	Mr M R Singha Dean (Academics) & HoD, Dept of Computer Application, GIMT, Guwahati	Member
6	Society	Ms. Sujata Chowdhury Member, SSA, Guwahati	Member
7	Educationist	Dr. S. K Nandi Professor, Dept of Computer Science and Engineering, IIT Guwahati	Member
8	AICTE	Regional Officer (Ex- Officio) Eastern Regional Office Salt Lake City, Kolkata	Member
9	AICTE	Director/ Assistant Director (Ex-Officio) AICTE Eastern Region Office Assam Engineering College Campus Jalukbari, Guwahati	Member
10	State Govt	Director of Technical Education Govt of Assam (Ex Officio)	Member
11	University	Registrar, Assam Science and Technology University	Member
12	Industrialist	Mr. Sampat Singhi Singhi House, Sarawati Road Panbazar, Guwahati	Member
13.	Teaching staff	Dr Nilanjana Deb Associate Professor & HoD, Dept of Business Administration, GIMT, Guwahati	Member
14	Teaching staff	Dr. Bhaskor Jyoti Bora Assistant Professor & HoD, Dept of Mechanical Engineering, GIMT, Guwahati	Member

# MESSAGE FROM THE PRESIDENT,SSA



**Ratul Das**  
President-SSA,  
Guwahati

I give me immense pleasure to present before you a brief of our vision and efforts. GIIMT-Guwahati was founded on 7th September 2006 as the first non-governmental engineering institute in the state of Assam under the aigies of the Srimanta Sankar Accademy Society, with a vision to produce competent, disciplined and quality engineers and administrators having the drive, skill and confidence to become the global pioneers of tomorrow.

Engineers play the most vital and important role in nation building. They create new inventions using best engineered technologies to make human life more comfortable, secure and productive. We provide the student all possible support and encouragement they need to rech there full potential. Today in the era of privatization and globalization , we try to groom and nourish our students in such a way that they are fully equipped to meet the global demands.

Within the short span of time, our institude has become one of the leading institutes in the North-East region and has taken a leap forward in quality technical education.

# MESSAGE FROM THE SECRETARY, SSA



**Bijoyananda Chowdhury**  
Secretary  
SSA Society

**" Education is not preparation for life,  
education is life itself " -John Dewey**

**O**n behalf of the Shrimanta Shankar Academy Society (SSA), it is my privilege to welcome you to an institute of higher learning on management and technology, where our constant endeavour is for excellence in all areas of our activities. Over the last eleven years, since its inception in September 2006, Girijananda Chowdhury Institute of Management and Technology(GIMT) has made great strides in the development of education, infrastructure, human resources and upliftment of the state, the North Eastern Region(NER) and the country.

In order to realise our vision, we at GIMT maintain a high-level regime of inclusive education and research, curricular and extra-curricular activities, transparent evaluation system and institute governance.

A pioneering institute of Management and Technology with UG and PG programs in the North-Eastern Region, GIMT offers the student the opportunity of a lifetime in realizing his/her dreams and aspirations. With dedication, hard work and our strong Training and Placement Cell we can assure the student a dream professional carrier.

I again welcome you to GIMT, where success is the only mantra.

# MESSAGE FROM THE PRINCIPAL, GIMT



**Prof. S.K. Dutta**

Principal,GIMT,  
Guwahati

## "A commitment towards academic excellence"

It is a matter of proud privilege and pleasure as the Principal GIMT,Guwahati to share my thoughts and information with all the students seeking admission in various Programs being offered here. At the outset, I welcome you to this premier institute of the North-East where opportunities abound with our commitment to quality education at affordable cost. It will be a great learning experience for you here.

Our institute came into being in September 2006 as the first engineering college in the private sector in Assam, as an initiative of Srimanta Sankar Academy Society offering four engineering programmes for study, namely Applied Electronics & Instrumentation Engineering , Electronics & Telecommunications Engineering, Computer Science & Engineering and Information Technology. We added five additional streams in subsequent years, two UG Programs in Mechanical and Electrical Engineering and three PG Programs in Business Administration, Computer Application and Computer Science Engineering (CSE) streams. We have grown to strength through these years. We are guided and motivated by our vision to play a key role of the transformation of the youth as competent, disciplined and quality professionals having the skill, confidence and motivation to become pioneers of tomorrow.

It is due to the untiring and dedicated efforts to our faculty and other staff that we have been able to secure for ourselves a pride of place in the technical education scenario in the state and the region. The institute has excellent laboratory facilities for all the departments. Our laboratories, of the Electronics and Telecommunication Department, have been approved by the Gauhati University for PhD. level research work. With our focus on outcome-based education, led by a team of dedicated faculty members with in-depth knowledge and experience, aided by excellent infrastructural facilities and high level academic discipline, we continue to march ahead in the path of academic excellence.

With continuous feedback from the industry, the alumni and the parents, we continue to improve ourselves to meet the high aspiration and standards. I can proudly claim that we have achieved all that we have set for ourselves. But not resting on our laurels, we continue in the path of growth in the future.

Come and join the premier Engineering and Management Institution of the region and we promise you that we will help you to realize your dreams.

# INSTITUTE GENESIS

The Institute was founded on 7 September 2006 as the first non-governmental engineering institute in Assam under the aegis of the Shrimanta Shankar Academy Society, a registered service organization set up in the year 1992 to make significant contribution for social upliftment through education and also to inculcate among the youth a sense of discipline.

The motto of the Society is “Truth, Discipline & Excellence”. Ever since its inception, its aim has been to establish a morally sound educational system which not only produces competent professionals but also excellent human beings contributing towards the welfare of the Society.

This Institute was established with due approval from the All India Council for Technical Education (AICTE), New Delhi and necessary permission from the State Government. GIMT is affiliated to the oldest and most reputed University in the State i.e. Gauhati University.

Since August 2013, the institute has also been affiliated to newly created university by the Government of Assam named “Assam Science & Technology University”. All admissions in Engineering, Management and Computer Application since August 2013 have been conducted under Assam Science & Technology University. Students of earlier batches, who took admission under Gauhati University, will continue under the Gauhati University till they complete their academic curriculum.

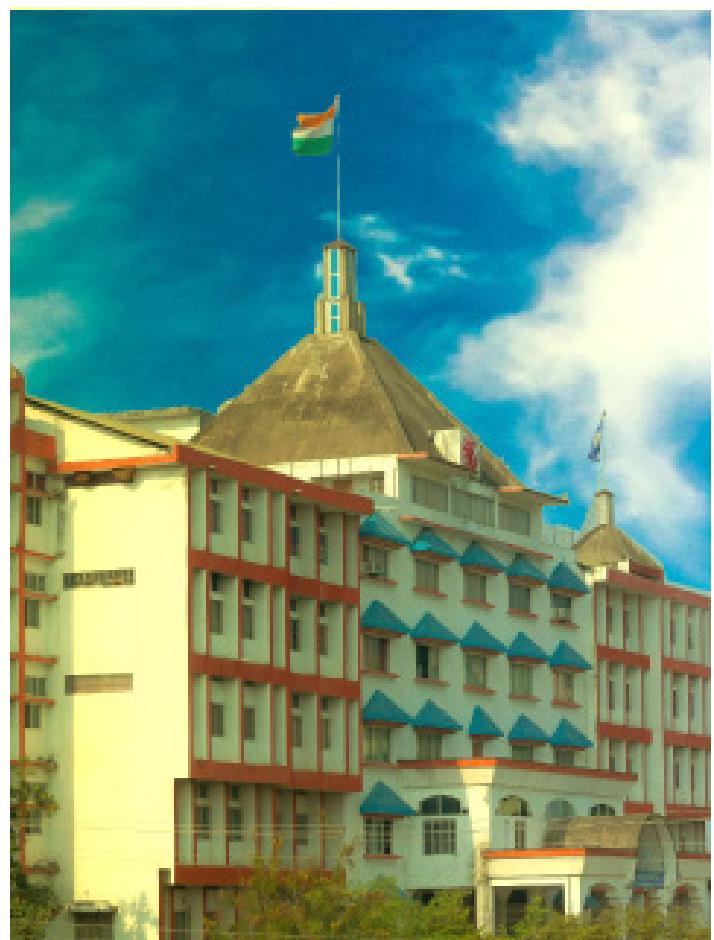
The first session of the Institute commenced on 13 July 2006 with 240 students in four disciplines leading to the Bachelor's degree in Electronics & Telecommunication Engineering (ETE), Applied Electronics and Instrumentation (AEI), Computer Science and Engineering (CSE) and Information Technology (IT). Two more undergraduate courses in Mechanical Engineering (ME) and Electrical Engineering (EE) were added in the years 2007 and 2008 respectively.

The first post-graduate course in Business Adminis-

tration leading to award of M.B.A degree was introduced in the year 2008. In 2009, the second post graduate course in Computer Application leading to award of M.C.A degree commenced at the institute.

The Institute also has approval from AICTE for Master of Technology (M.Tech.) courses in Computer Science & Engineering (CSE), Electronics & Telecommunication Engineering (ETE), Instrumentation & Control Engineering (ICE) and Thermal and Fluid Engineering. Gauhati University has recognised the Laboratories of the Department of Electronics & Telecommunication Engineering for Ph.D. programme. The Institute is likely to offer the Ph.D. program in the coming year.

**GIMT's USP is its 'high-end infrastructure and competent and experienced faculty members'.**



# PROMOTING BODY

**W**ith an aim to promote and propagate the philosophical ideals of the great Saint of Assam, Shrimanta Shankar Dev namely Truth, Discipline, Ethics and Excellence, a Society named as Shrimanta Shankar Academy had been formed in the year 1992 with its registered office at Dr. J.C. das Road, Panbazar, Guwahati (Assam). Under the Societies Registration Act, 1886, the Society was formed initially with seven members. Further with the introduction of some more members, the present strength of the members of the Society has gone up to 19. The following are the aims and objectives of the Academy:

- a)to promote and propagate the philosophical ideals of great Saint Shrimanta Shankar Dev which is the guiding spirit of the Academy i.e. Truth, Discipline, Ethics and Excellence.
- b)to maintain a spiritual environment on the basis of the motto enunciated by Shrimanta Shankar Dev in the campus/colleges/schools run by the Society.
- c)to educate the students and train them for a career with character.
- d)to spread knowledge concerning physical, intellectual, moral, social and mental development among the students of the Academy.
- e)to provide infrastructure for imparting education (all types) to the students by providing colleges, hostels, laboratories, libraries, research centers etc. and to run/ maintain/ develop them.
- f)to associate with the national/international organization for the purpose of achieving the objects of the Society.
- g)to publish/circulate/distribute any literary materials, books, pamphlets, periodicals, journals, circul-lars, letters etc. in order to promote the objectives of the Society.
- h)to provide scholarship/stipend to the students who are engaged in research on the matters connected to the Society.
- i)to purchase/construct buildings which shall be used in furtherance of the objects of the Society.
- j)to provide and give all kinds of aid to the less privileged/needy students of the Academy.

- k)to collect/preserve/conduct research on the books/literature etc. of Shrimanta Shankar Dev.
- l)to raise and collect funds by subscriptions, donations, grant-in-aid or otherwise for furtherance and fulfillment of the objectives of the Society.
- m)to borrow or raise loans either on security of the assets of the Society or otherwise and on such terms and conditions as may be determined by the governing body from time to time.
- n)to sell, improve, manage, develop, exchange, lease or let under lease or sublet, mortgage, dispose of, turn to account otherwise deal with all or in ant part of the movable or immovable properties of the Society.
- o)to invest, deposit, withdraw or deal with the funds of the Society as the governing body may deem fit and proper.
- p)to donate funds to trusts, organizations or institutions having similar objectives.
- q)to co-ordinate its activities with any other educational or charitable institution, association or body corporate which has for its objects any one or all of the objects mentioned above.
- r)to do all such other things incidental or conducive to the attainment or furtherance of the objectives of the Society without any distinction as to caste, creed, religion, community or language.



# AUTHORITIES

## HEAD OF THE INSTITUTE

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# INFRASTRUCTURE FACILITIES

CELEBRATION OF  
**NATIONAL**

DATE : 27

ORG

GIMT  
GUWAHATI



## Instructional Facilities

There are more than 50 well equipped Classrooms and Tutorial rooms in the Institute. Tutorials are conducted by various departments. The class rooms are sized as per AICTE norms and requirements. Most of the Classroom area is more than 66 Square metres with sufficient numbers of furnitures and fixtures. The classroom are equipped either with Green boards, Black boards or white boards with a platform for conducting lectures by faculty members and instructors. There are also Model classrooms equipped with LCD projectors and audio facilities.



## Laboratories and Workshop

### Laboratories:

The institute has more than 60 laboratories to cater for all the departments running various engineering courses. All these laboratories are well equipped with the latest equipment for students to experiment on the latest technology and give the desired experience to them while in the institute. The Institute continues to improve upon these laboratories to keep pace with the latest developments in various fields of engineering.

### Central workshop:

The Central workshop measuring 450 sq. m. has been equipped to provide all the facilities for the basic training of the Engineering students in turning, machining & welding, fitting, carpentry and blacksmithy trades. The facilities of the workshop are also utilized for making models etc. for students' projects works and minor repair works of College fleets of transports, constructional works requirements and meeting the need of other Departments / Laboratories of the college. It also facilitates interest in some modification works on existing equipment and the students develop habits and much needed interest in such activities.



## Library facilities

The Central Library occupies total floor area of more than 600 sq. m. including a spacious reading room to accommodate at least 100 persons for self-study. The functioning of library is computerized with integrated library management software. The library is equipped with national and international journals (IEEE, ASPP) of both printed and online forms for the benefit of the student and the faculty. Ten computers with broadband connection and LAN have been provided to browse the various e-journals available in the library. The

Library is stocked with an adequate number of latest edition text books. At present it has about 30000 volumes of 5089 titles. The Institute continues to procure new books as new subjects are added to the syllabus of various departments.



## Central Computing facilities

The computing facility of the institute occupies a floor space of more than 300 sq. m. and houses around 200 computers loaded with Windows XP/Vista & Linux operating systems. All the computers are based on Pentium-IV and Dual Core Technology with some connected to wireless LAN through a central server with an ability to work on different platforms. Internet facility with totaling more than 48 MBPS Broad Band is available to 85 % of the computers. Students at GIIMT are encouraged, from the very beginning, to use the computer independently in order to gain sufficient hands on practice. In addition to this, several Laboratories have large numbers computers dedicated to perform specified tasks in laboratory experiments.



The Department of Business Administration also houses a modern Computer centre equipped with sufficient numbers of computers with internet facility as per AICTE requirement. This centre is meant for use of MBA students exclusively. Similarly, another Computer Centre, having about 90 computers, is in place for MCA students. The students enjoy access to different international and national journals and e Books from these centres.



## Canteen facilities

A well-equipped canteen is housed in a spacious building providing hygienic breakfast, lunch, tea and snacks to students, faculty and staff members at moderate rates. The area of the canteen is more than 400 Square meter to cater the need of more than 2000 students of the Institute.

The canteen facility also caters for special function arranged at different times with specialized food items as and when required. There are more than 10 employees in the canteen with hands on experience.





## Language Laboratory

The institute has created facility to train our students in improving their mastery over the English language. This will help them immensely in facing interviews and take part in group discussions. For this, we have tied up with Orell Langauge Lab, a world renowned company dealing with the subject. A separate laboratory has been provided with 31 computers (One faculty and 30 students computers). Orell Digital Language lab software has been installed in all the computers. Regular classes are being conducted for first and second semester students. Humanities Department is responsible to run this facility.



## Seminar Hall

There are six well equipped Seminar Halls. Audio Visual facilities are in place to fulfill the need of the academic departments of the Institute. The seminar hall allows the institute to conduct national level conferences, workshops and seminars within its own premises. With seating capacity of 200 persons, GIMT is conducting national level conference on various disciplines.



## Collaborations

### GIMT-BOSCH Collaboration

The Institute has taken various initiative to collaborate with Industries and Institutes. An initiative which will be of immense help to our students, a GIMT – BOSCH Joint Certification Training Centre has been opened at our premises in February 2014. BOSCH is a renowned German Company dealing in development and maintenance of petrol and diesel engines. In a joint collaboration, GIMT is providing the infrastructure and the machines while BOSCH is providing the expertise. The first batch of students from GIMT has already undergone the training and more such courses will follow. The cost of the training is being heavily subsidized by us so that maximum students can benefit from the training.

### GIMT-IIT, Mumbai Collaboration

The Finishing School conducts an array of Technical training Certificate courses offered by IIT Bombay Spoken Tutorial in association with Ministry of Human Resource Development (MHRD) apart of its Mission for Education

- Information and Communications Technology (ICT). These courses are selected to cater to specific and latest Industry needs. Regular classes in communication skills and soft skills. Sessions are provided on CV and resume writing, group discussion sessions, interview performance and behaviour, communication and presentation skills, personality development, time management skills, negotiation skills, interpersonal and team management etc.

## Transport Facilities

The Institute has more than 15 vehicles to cater for the needs of the students as well as faculty members and staff. GIMT runs College Bus service along specified routes from the city to the college and back. The students of the Institute are offered transport facilities over various routes. Moreover, small vehicles are also utilized for day-to-day activities of the institute



## Hostel Facilities

### Girls' Hostel:

The institute owns a Girls hostel having 116 double bedded rooms inside the College Campus. The Girls Hostel is being looked after by two Hostel wardens . Girls Hostel of the Institute has been administered with some rules and regulations and borders are to follow such rules for smooth running of the day to day activities.



### Boys' Hostel:

The Institute has also a Boys Hostel outside its campus with more than 40 Hostel borders. Apart from that there are many private hostels near the Institute. Students are also permitted to stay outside the Institute. Students are monitored by their mentors.

The institute is building a new boys' hostel within the campus with 225 rooms.

## ATM Facilities

The Institute has recently introduced the facility of ATM in collaboration with the State Bank of India to cater the financial need of the Students, faculty members and the staff. The students can avail the ATM facility round the clock.





## Boys and Girls Common Rooms

There are separate Boys and Girls Common room to fulfill the basic amenities of the girls and boys students. The Common rooms are equipped with the various sports and musical instruments. Students can avail the facilities to develop their Co-curricular and extra curricular activities.

## Essential Requirements

**Power and electricity:** Electricity supply is provided by Assam State Electricity Board (ASEB) and a Transformer of capacity 250kVA, 11kV/440V, 3-phase, 50Hz, is installed. Three standby DG sets of 380, 380 and 50kVA, 3-phase, 400V, 50Hz are available to provide standby supply incase of failure of electric supply from ASEB. Maintenance is carried out by inhouse electricians. An additional transformer is being installed to catered for enhanced load.

**Portable water Supply:** 24 hrs water supply is available in the institute. Institute has a strong water tank of 60,000 ltr with a reserve tank of 10,000 litres. The girls hostel is provided with a separate storage tank of 40,000 ltr capacity.

**Medical facilities:** The emergency medical care facilities are available with the Institute in different ways. (a) A registered Medical Practitioner is available for medical needs. (a).A nurse is appointed for emergency medical care. (c) The Government medical Hospital , Azara, Guwahati-17 is only within 500m distance with the institute and in case of any emergency, patients are brought to the hospital by the Van used for medical emergency. (d) An ambulance is available at the institute premises to transfer patients during medical emergency.(e) The institute has opened a medishop under the Pradhanmantri Jana Aushadhi Scheme.

**Security and safety arrangements :** Round the clock security is provided with eleven security personnel (in three shifts) duty. Two security personnel are employed separately for girls' hostel at night. Different measure have been taken for checking the safety and security norms. Weekly checks are carried out on all electrical installations and panel boards in the institute by the resident electrician. In addition, all complaints received are properly addressed. The three standby DG sets are checked daily for radiator/battery water level, engine oil level, battery terminal connections, functions of all safety devices. Output voltage is also checked to prevent damage of the electrical appliances

**Disaster management options :** The building have been constructed with adequate passage facility for immediate evacuation in case of emergency. Sufficient water storage facility have been created to cope up with fire hazards and each every floor is facilitated with such water pumping facilities. Classrooms, laboratories, seminar halls and workshop are well ventilated and are provided with multiple exits. There are separate toilets for men and woman on all floors and they are fitted with exhaust fans. The main institute building has three sets of wide stairs cases to meet any emergency. At the ground floor five exits are available for emergency evacuation. Fire and earthquake evacuation plans have been put in place and personnel (faculty and students) adequately trained to handle the situation till the arrival of assistance. Personnel of the institute also attended various training programmes conducted by the Assam Disaster Management Authority. 154 fire extinguishers have been deployed in various locations and laboratories in the institute for immediate fire

prevention. In addition, fire-fighting equipment have been deployed with over 1 lakh litres of water-storage capacity in the institute campus. Large pathway from the approach road allows easy entry of fire-fighting vehicles and equipment.

**House keeping facilities:** There are more than 20 housekeeping personnel employed to keep the campus clean and unhygienic.

**Telecom Facilities :** Landline telephones are available in the office of the GIMT, Principal, PS to the Principal and in Dean Administration office. Moreover, Institute has many mobile phone and Internet connections for communication of voice and data.

## Programmes Offered

Girijananda chowdhury Institute of Management and Technology , Guwahati offers the following courses in undergraduate and post graduate level.

### Under Graduate Courses

Sl. No.	Programmes	Approved Intake
1	B.Tech in Applied Electronics and Instrumentation Engineering	30
2	B.Tech in Civil Engineering	60
3	B.Tech in Computer Science and Engineering (CSE)	90
4	B.Tech in Electrical Engineering (EE)	60
5	B.Tech in Electronics and Communications Engineering (ECE)	120
6	B.Tech in Mechanical Engineering (ME)	120

### Post-Graduate Courses

Sl. No.	Programmes	Approved Intake
1	Master of Business Administration (MBA)	60
2	Master of Computer Application (MCA)	30
3	M.Tech in Computer Science and Engineering	18
4	M.Tech in Instrumentation and Control Engineering	18
5	M.Tech in Electronics and Communications Engineering	18
6	M.Tech in Thermal and Fluid Engineering	18

**Affiliation :** The Institute initially started with the affiliation of Gauhati University , Guwahati , Assam from the year 2006. Later on as the state government has established the Assam Science and Technology University , mainly for bringing the Engineering and Technology Institutes under the same umbrella. In the view of this Progress the College has been affiliated by the Assam Science and Technology University from the year 2013.

**Approval :** All the Undergraduate and Post Graduate courses of the Institute is duly approved by All India Council for Technical Education, Govt. of India, New Delhi.

**Permission :** The Institute has been started with due Permission of the Government of Assam.

# DEPARTMENT OF

# APPLIED

# ELECTRONICS AND

# INSTRUMENTATION

# ENGINEERING(AEI)

## ABOUT THE DEPARTMENT

The Department of Applied Electronics and Instrumentation Engineering, GIMT-Guahati had initially, started the Bachelor of Engineering (BE) Programme on Applied Electronics and Instrumentation Engineering (AEI) in September 2006 under Gauhati University. Since then six batches of students have completed their Course of Study under Gauhati University. Subsequently, in the year 2013, the Institute had got affiliation under Assam Science and Technology University (ASTU) and Bachelor of Technology (B. Tech) program had been started from the academic year 2013. The Under Graduate (B.Tech) programme has 92 courses/ 200 credits and covers core subjects of basic sciences, humanities and technology besides vital aspects of Electrical, Electronics engineering and Computer science with particular emphasis on Instrumenta-

tion Engineering. The students enrich their learning experience through practicals/Seminars/Industrial Training/Projects. The PG (M.Tech) programme on Instrumentation and Control Engineering (ICE) was started from the academic year 2014-15. The motto of the department is empowerment through quality education.



## Vision

To produce globally competitive engineers and technocrats with concern for the society and the environment.

## Mission

- To provide high-quality education along with modern facilities.
- To enable the faculty members to achieve the goals of the department.
- To encourage research and development activities relevant to the needs of the department and the community in and around the institution.
- To promote industry-institution partnership.
- To promote a conducive environment in the department so that the students embed professional values and ethical behavior.

## Programme Educational Objectives (PEOs)

**Physical Resource:** To procure latest hardware and software products to upgrade the facilities in laboratories for meeting the following goals:

1. To undertake curricular and co-curricular activities.
2. To undertake R&D consultancy projects by the department.
3. To undertake higher or advance research work relevant to the profession.

### Higher Studies and Research:

1. To provide students with a sound foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and prepare them for Post-graduate

studies.

2. To provide value addition programs to develop abilities for seeking admissions in PG and PhD programs in Indian as well as in foreign universities.

### **Employability Skills:**

1. To ensure that the faculty members and other employees demonstrate professional behaviour as role models of the students.
2. The department will ensure to integrate development of technological and communication skills of the students.
3. To ensure that faculty members and students use innovative methods of self-learning to inculcate and nurture life-long learning skills.

### **Personality Development:**

1. To ensure that faculty members, staff and students practice the behaviour related to time management, self-discipline, positive attitude, integrity and so on.
2. To organize departmental seminars on regular basis on themes such as innovation in technology and to assess the student's capability of delivering the technical content.
3. The department will ensure to adopt the approach of self-development groups for developing the personalities and competencies of faculty members and students.

**Social Responsibilities:** The Department will try to organize socializing activities such as

- Interdepartmental seminars
- Official picnics
- Annual function for faculties
- Engineering model exhibition under the guidance of faculties.
- Interactive sessions with the experts from different fields.

**Career Preference:** The department expects that the graduates of this program are likely to contribute excellence in the following sectors.

- Integrated Circuit Design
- Embedded System Design
- Process control industries
- Higher education
- Entrepreneurship

## **Programme Outcomes (POs)**

**The students need to attain the following Programme Outcomes (POs)**

- Ability to apply the knowledge of mathematics, science and engineering,
- Ability to design and conduct experiments, also analyze and interpret data,
- Ability to design a system, select the components and process to meet the desired goal within the realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability,

- Ability to apply engineering and management principles individually or in a team in a multidisciplinary environment,
- Ability to identify, formulate and solve engineering problems,
- Exhibit professional and ethical behavior,
- Acquire effective communication skills such as speaking and listening, reading and writing, interpret and prepare visual cues,
- Demonstrate the impact of engineering solutions in global, economic, environmental and societal contexts,
- Practice the methods of time management and life-long learning,
- Apply modern techniques, resources and, engineering and IT tools in the solution of engineering problems.
- Keep abreast with contemporary knowledge, issues and technological developments (techniques, skills and tools).

## Programme Details



<b>Under Graduate Degree Offered</b>	Bachelor of Technology in Applied Electronics and Instrumentation Engineering (Affiliated to Assam Science and Technology University ) <i>Provisionally Accredited by NBA for the year 2016-17 &amp; 2017-18</i>
<b>Duration</b>	4 years (8 semesters)

<b>Post Graduate Degree Offered</b>	Master of Technology in Applied Electronics and Instrumentation Engineering (Affiliated to Assam Science and Technology University )
<b>Duration</b>	2 years (4 semesters)
<b>Intake</b>	18 (1st semester level )

## Core Subjects Offered

### Bachelor of Technology in Applied Electronics and Instrumentation Engineering

Fundamentals of Instrumentation	Communication Theory
Electrical & Electronics Measurements	Industrial Instrumentation
Introduction to Signal and System	Optical Instrumentation
Digital Signal Processing	Process control and modelling
Power Electronics	Operations Research
Digital Electronic and Logic Design	Analytical Instrumentation
Control System	Transducer and Sensor
Microprocessor and Embedded systems	Numerical Method and Computation
Object Oriented Programming and Data Structure	Bio-Medical Innstrumentation
Digital System Design	Fuzzy Mathematics
Smart sensor and network	Optimization Techniques
VLSI design	Fibre Optic Instrumentation
Electronic Devices and Circuits	Microprocessor and Microocntrller

### Master of Technology in Instrumentation and Control Engineering

Advanced Instrumentation and Measurement Systems	Advanced Microcontrollers and Embedded System Design
Advanced Control System	Nonlinear System Control
Applied Mathematics	Fibre Optic and Laser Instrumentation
Advanced Sensor Technology	Remote Sensing and Control
Process Dynamics and Control	Advanced Virtual Instrumentation
Advanced Electronic Instrumentation	Advanced Digital Signal Processing
Instrumentation for Environmental Analysis	Engineering Optimization
Digital Control System Design	Industrial Communication
Fuzzy logic, Neural Network and Control	Industrial Automation and Robotics
Adaptive Control	Optimal Control Theory
Advanced Medical Instrumentation	Process Modeling and Simulation
Advanced Process Control	Projects and Seminars

Continue .....

## Faculty Members




**Dr. Sandip Bordoloi, B.E, M.Tech, Ph.D**  
Assistant Professor & HoD in-charge.

- Prof. Pradip Kr. Bordoloi, . Professor , B.E., M.Tech., Ph. D
- Ms. Ritushree Dutta, Asst Professor, B.E, M.Tech.
- Ms. Susmita Ganguli, Asst Professor, B.E, M.Tech.
- Mrs. Chayashree Patgiri , Asst Professor, B.E, M.Tech., Pursuing Ph.D
- Mrs. Karabi Deka, Asst Professor, B.E, M.Tech
- Ms. Munmi Dutta, Asst Professor, B.E, M.Tech

## Laboratory Instructors



- Mr. Tridib Kumar Roy, Technician Diploma
- Mr. Rituraj Phukan, Laboratory Instructor , B.E.
- Ms. Jikumoni Buragohain, Laboratory Instructor , JE, pursuing AMIE
- Mrs. Leena Choudhury, Laboratory Instructor , JE, pursuing AMIE

Apart from this, the department employs Part time / Adjunct Faculty from Industry and academia from time to time as per requirements.

## Special Features of the Department



- The students are exposed to rigorous practical training in laboratories, linked to the theory subjects listed above. A project/ research oriented Fiber-optics laboratory is also operational.
- The First Year students also attend Physics, Chemistry and Computing Laboratories and Workshops.
- Special soft-skill classes, short-term courses are conducted at regular basis. Experts from Industries are engaged for this purpose and educational institutes.
- Gate coaching classes are organized.
- Remedial classes for weaker students.

## Laboratories under AEI Department



1. Transducer Laboratory
2. Power Electronics Laboratory
3. Network Theory Laboratory
4. Digital Electronics and Logic Design laboratory
5. Electronic Devices and Circuits Laboratory

6. NUMAC (Numerical Methods and Computing) Laboratory
7. Control System Laboratory
8. Electrical and Electronic Measurement Laboratory
9. Optical Fiber Instrumentation Laboratory
10. Industrial Instrumentation Laboratory
11. Process Control Laboratory
12. Microprocessor Laboratory
13. Project Laboratory-Hardware and Software

## Publications of Faculty Members:

- Publication in Journals: 30
- Publication in Conference: 28

## Activities, Events Organised by the Department in the Academic Year 2016-2017

- Symposium on “Career Avenues for Engineering graduates in India and Abroad”, February 27, 2016.
- Extra-mural lecture by Ms. Richa Sarma, Assistant Manager, Customer Experience & Transformation, Wipro Technologies, Bangalore, August 16, 2016.
- Staff Development Programme on “MATLAB and its application in Engineering”, 15-16 November, 2016.



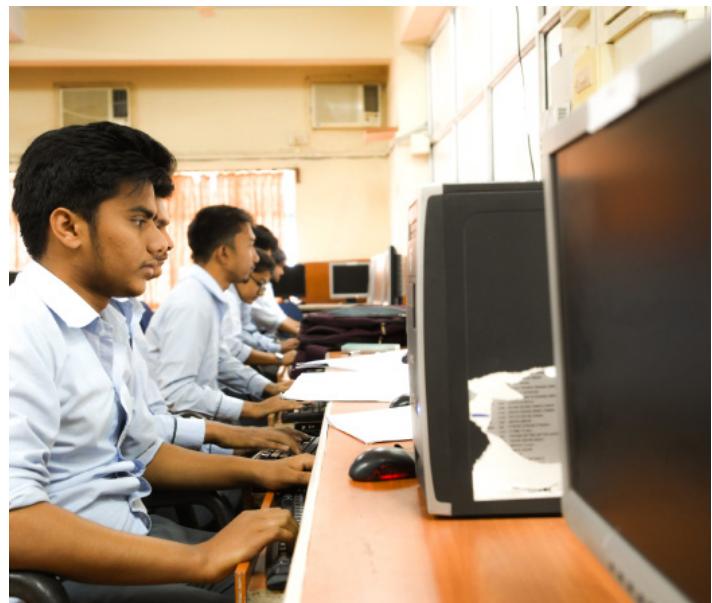
# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING(CSE)



## ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was started in September 2006 with an affiliation from Gauhati University. Since then, a large number of students has been admitted in the BE in Computer Science and Engineering Programme conducted by the department. The department started offering BTech degree in 2013 under Assam Science and Technology University after the institute was affiliated to the newly established university.

The Department of Computer Science and Engineering started the Master of Technology (M.Tech.) programme in Computer Science and Engineering in July 2012. Presently, the programme is affiliated to the Assam Science and Technology University.



### Vision

To develop competent computer science and engineering graduates who will contribute productively to local, national, as well as global economies.

### Mission

- To provide good quality education along with state-of-the-art facilities
- To enable the faculty members to achieve the department goals
- To promote research design and development activities relevant to the needs of the institute and the community around the institution
- To promote industry-institution partnership
- To promote and nurture a conducive environment in the department as well as in the institution so that the students ingrain professional values and ethical behavior

### Programme Educational Objectives (PEO)

**Physical Resource:** The department will acquire latest hardware and software products and tools for upgrading the facilities in laboratories and class room to meet the following goals:

Students can undertake curricular and co-curricular activities  
Department can undertake R&D consultancy projects.

### Higher Studies and Research:

To provide students with a strong base in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze different engineering problems and prepare them for graduate studies.

To provide students value addition programs in order to develop their abilities for seeking admissions in PG

and PhD programs in Indian as well as in foreign universities.

Faculty members and students can carry out higher or advance research work relevant to their career.

### **Employability Skills:**

To ensure that the faculty members and other employees of the department demonstrate professional behavior, which make them as role models to the student

To ensure to integrate development of technological and communication skills together

To ensure that faculty members and students will use innovative methods of self -learning in order to inculcate and nurture life-long learning skills.

### **Personality Development:**

To ensure that the faculty members, staffs and students demonstrate the behaviors related to time-management, self-discipline, positive attitude, honesty, integrity and so on.

To organize departmental seminars on regular basis on themes such as innovations in technology or innovations in delivering and accessing the technical contents

To ensure to adopt the approach of self-development group for developing the personalities and competence of faculty and the students

**Career Preference:** The department expects that the graduates of the program are likely to contribute excellence in the following sectors:

Application Development

Quality Assurance and Testing

Web developer

Education Sector

Marketing and Finance Sector

Research and Development

Pursue Higher Education

Entrepreneurial ventures

## **Programme Outcomes (PO)**

- To apply the knowledge of Mathematics, Science and Engineering
- To design and conduct experiments, also analyze and interpret data.
- To design a system, select the components and process to meet the desired goal within the realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.
- To apply engineering and management principles individually or in a team in a multidisciplinary environment
- To identify, analyze, specify and solve engineering problems.
- To exhibit professional and ethical behavior
- To acquire effective communication skills such as
- Speaking and listening Reading and writing Interpret and prepare visual display
- To illustrate the impact of engineering solutions in global, economic, environmental and societal contexts
- To practice time management and life-long learning
- To apply modern techniques, resources and engineering tools in the solution of engineering problems.

- To keep abreast with contemporary knowledge, issues and technological developments

## Program Details



<b>Under Graduate Degree Offered</b>	Bachelor of Technology in Computer Science and Engineering (Affiliated to Assam Science and Technology University ) <i>Provisionally Accredited by NBA for the year 2016-17 &amp; 2017-2018</i>
<b>Duration</b>	4 years (8 semesters)
<b>Intake</b>	90 (1st semester level )
	18 ( 3rd semester level ) through lateral entry.
<b>Post Graduate Degree Offered</b>	Master of Technology in Computer Science and Engineering (Affiliated to Assam Science and Technology University )
<b>Duration</b>	2 years (4 semesters)
<b>Intake</b>	18 (1st semester level )

## Core Subjects Offered



### For Bachelor of Technology in Bachelor of Technology in Computer Science Engi-

Object Oriented Programming in C++	Microprocessor & Micro-controller
Basic Graph Theory	Principles of Management
Computer Architecture & Organisation	Design & Analysis of Algorithms
Data Structure & Algorithm	Cryptology & Network Security
Digital Systems	Network Programming
Formal Language and Automata Theory	Web Technology
Optimization Techniques	Data Mining
Software Engineering	Modeling & Simulation
Principles of Programming Languages	Compiler Design
Computer Networks	Computer Graphics & Visualization
Data Base Management System	System Development Project works

## For Master of Technology in Bachelor of Technology in Computer Science Engineering

Advance Data Structures and Algorithm	Artificial Intelligence
Design of Computerized Systems	Multimedia Systems
Mathematical Foundation of Computer Science	Cloud Computing
Distributed Systems	Embedded Systems
Cryptography and Network Security	Data Mining and Warehousing
Advanced Design and Analysis Algorithms	Advanced Operating Systems
Software Training and Quality Assurance	Mobile Computing
Game Theory	Object Oriented Analysis and Design
Fault Tolerant System	Image Processing
Advanced Networks	Advanced Data Base
Advanced Computer Architecture	Protocol Engineering
Web Technology	Soft Computing
Natural Language Processing	Seminar and Project Works

## Faculty Members



**Dr TH Shanta Kumar, B.Sc(CS), MCA, PhD-CS**  
Associate Professor & Head of the Department

- Mrs. K. V. Kanimozhi, Asst Professor, B.E (CSE), M.E. (CSE), pursuing Ph.D
- Mr. Adarsh Pradhan, Asst Professor, B.E (IT), M.TECH. (IT), pursuing Ph.D
- Dr. Minakshi Gogoi, Asst Professor, M.TECH. (IT), PhD
- Ms Manjula Kalita, Asst Professor, M.TECH. (IT)
- Ms. Shrabani Medhi, , Asst Professor, B.E (CSE), M.E. (CSE)
- Mr. Amarjyoti Pathak, Asst Professor, B.E (CSE), M.Tech. (IT)
- Mr. Arindam Saha , Asst Professor, B.E (CSE), M.E. (CSE)
- Mr. Utpal Barman, Asst Professor, B.E (CSE), M.E. (CSE)
- Ms.Pinky Saikia Dutta, Asst Professor, B.E (CSE), M.E. (CSE)
- Mr. Manojit Ghose (On study leave), Asst Professor, B.E (CSE), M.TECH. (CSE), pursuing Ph.D
- Mr. Parikshit Saikia(On study leave), Asst Professor, B.E (CSE), M.TECH. (CSE), pursuing Ph.D

## Laboratory Instructors

- Ms. Rubi Kalita, Sr. Instructor, MCA
- Ms. Luna Ojah, Sr. Instructor, MCA, M. Tech
- Ms. Mridusmita Baruah, Sr. Instructor, MCA
- Mr. Asraf Malik, Instructor, B.Tech

Continue .....

## Special Feature of the Department

### Laboratories:

Software available:

WINDOWS, LINUX

VISUAL STUDIO

SQL

IBM RATIONAL ARCHITECTURE

IBM RATIONAL QUALITY AND TESTING

MATLAB

BORLAND C++ AND BUILDER

ORCAD(CADENCE)

LAB VIEW

## Strength of the Department

1. Department has been provisionally accredited by NBA (National Board of Accreditation) for the year 2016-17 to 2017-18.
2. Provide special coaching for Gate.
3. Provide of elective subjects under SWAYAM (AICTE)
4. Good placement facilities from the companies like Sony, Tech Mahindra , Zaloni , L&T Infotech, Tes etc.
5. Encouraging students for presenting & publishing papers in national & international level symposiums, workshop, conferences & journal by providing incentives.
6. Department organizes various valued added like FDP, conferences , Seminars, workshops etc.
7. Guest lectures from Industry delegates.
8. Special Trainings are provided for enhancing soft skills & Technological Skills.
9. Two teams from CSE had been selected for National level Technical event 'Hackathon' held in MIT, Mangalore, and GIMT Nodal centre, Guwahati.

## Publications of Faculty Members:

- Publication in Journals: 37
- Publication in Conference: 17





# DEPARTMENT OF CIVIL ENGINEERING (CE)

## ABOUT THE DEPARTMENT

The Department of Civil Engineering at GIMT was established in 2014 and offers Bachelor of Technology (B.Tech). The programme has a curriculum that includes classroom teaching/ practical / seminar / industrial training / site visits/ projects etc. and it covers subjects on basic science, humanities and technology. The course structure and syllabi for the branch are basically imparting knowledge in the field of Civil Engineering and include theory papers like Design of structures, Surveying, Transportation, Environmental engineering, Foundation engineering, Hydraulics, Irrigation, Hydrology and flood management, Geo-technical engineering, Con-

struction practice, Engineering geology and Rock mechanics, and a number of elective papers.



### Vision

To provide trained human resources in the field of Civil Engineering for industry and society through excellence in technical education and research.

### Mission

- To produce civil engineers of high calibre, technical skills and ethical values to serve the society and the Nation.
- To make the Department a Centre of Excellence in the field of Civil Engineering and allied research.
- To provide knowledge base and consultancy services to the community in all areas of Civil Engineering.
- To promote innovative and original thinking in the mind of budding engineers to face the challenges of future.
- Interaction with industry with emphasis on R&D.

### Programme Educational Objectives (PEO)

#### Physical Resource

- a)The Department is equipped with latest equipment alongwith hardware and software in the laboratories.
- b)The Department can undertake Research and Consultancy projects.
- c)Students may also be associated with higher research work.
- d)Students can undertake curricular and co-curricular activities.

#### Higher Studies and Research:

- a)Providing the students with a strong foundation in scientific and engineering fundamentals to enable them for future challenges in the Civil Engineering field and in the industries.
- b)To prepare students for higher studies through various programs.

#### Employability Skills:

- a)To ensure building-up of proper foundation with right attitude and professional behavior of students.
- b)To ensure development of technical and communication skills together.

c) To ensure use of innovative methods of self-learning by students.

### **Personality Development:**

- a) To ensure students demonstrate behaviors related to time-management, self-discipline, positive attitude, integrity and so on.
- b) To ensure self-development in time management, self discipline, integrity etc.

**Career Preference:** The graduates of the program are expected to contribute excellence in the following disciplines:

- a) Construction and management
- b) Geo technical Engineering
- c) Structural Design and practices
- d) Transportation Engineering
- e) Water Resources Engineering
- f) Research and Development
- g) Become an entrepreneur
- h) Higher Education

## **Program Outcomes (POs)**

Graduates of Civil Engineering Programme will be able to apply the following:

**1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**2. Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development.

**8.Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**9.Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**10.Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**11.Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**12.Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## Program Details

Degree Offered	Bachelor of Technology in Civil Engineering (Affiliated to Assam Science and Technology University )
Duration	4 years (8 semesters)
Intake	60 (1st semester level ) 12 ( 3rd semester level ) through lateral entry.



## Core Subjects Offered

Engineering Survey	Quantity Survey and Estimation
Fluid Mechanics	Advanced Engineering Geo science
Solid mechanics	Open Channel Flow
Building Construction	Concrete Technology
Structural Analysis	Pre-stressed Concrete
Hydraulics & Hydraulics Machines	Construction Project Management
Engineering Geology and Rock Mechanics	Design of Substructure
Design of Structures	Water Resources Engineering
Transportation Engineering	Earthquake Engineering
Geo-technical Engineering	Disaster Management
Environmental Engineering	Flood Management

## Faculty Members



**Dr. Krishnanga Gohain, M.Tech (Applied Geology), Ph.D**

Professor and HOD

- Mr. Nazrul Islam, Associate Professor, B.E. (CE), ME (Hydrology)
- Mr. Jyotisman Saikia, Asst Professor, B.E. (CE), ME (Soil Mechanics & Foundation Engineering), pursuing Ph.D.
- Mr. Hrishikesh Dev Sarma, Asst Professor, B.E(CE), M.TECH (Structural Engineering)
- Mr. Saurav Jyoti Parasor, Asst Professor, B.E(CE), M.TECH (Environmental Engineering)
- Mr. Alakesh Deka, Adjunt Faculty, M.Tech(Water Resources Engineering)
- Mr. Sushanta Sarkar, Adjunt Faculty, M.E.(Soil Mechanics and Foundation Engineering)
- Mr. Monjur Ahmed, Adjunt Faculty, M.Tech(Structural Dynamics and Earthquake Engineering)

## Laboratory Instructors

- Mrs. Monirupa Mishra, Diploma in Architectural Assistantship , Diploma in Civil Draftmanship, MA, B.ed.
- Ms. Kongkita Choudhury, Diploma in civil engineering
- Mr. Jugal Kishor Deka, Diploma in civil engineering
- Mr. Arnab Baruah, Diploma in civil engineering

Continue .....

## Special Feature of the Department

- The Department is strongly focused in imparting quality education.
- Industry-academia interaction in the form of regular expert lectures and seminars.
- Mini projects for advanced learners.

## Laboratories

The students are exposed to state of the art practical training in laboratories, linked to the theory subjects listed above. The First Year students also attend Physics, Chemistry and Computing Laboratories and Workshops. Furthermore, special soft skill classes, finishing school, short-term courses are conducted at regular basis. Experts from Industries are engaged for this purpose, wherever applicable.

## Laboratories under CE Department:

1. Solid Mechanics / Strength of materials
2. Engineering Survey
3. Fluid Mechanics
4. Engineering Geology and Rock Mechanics
5. Transportation Engineering
6. Soil Mechanics
7. Concrete Technology
8. Environmental Engineering
9. Computer Aided Design and Drawing

## Publications of Faculty Members:

- Publication in Journals: 15
- Publication in Conference: 8

## Events Organized by the Department

- Seminar on Green Technology.
- Faculty development program
- Industrial visit to Bit Chem Industries Limited, Meghalaya.
- Field visit to Brahmaputra River Bank for erosion studies.
- Site visit to a Building Construction site.

## Consultancy Cell:

The Department of Civil Engineering has a consultancy cell which offers consultancy services, laboratory testing of materials and various solutions to Civil Engineering related problems.

# DEPARTMENT OF

# ELECTRICAL

# ENGINEERING (EE)

## ABOUT THE DEPARTMENT

The 4 year degree course of Electrical Engineering (B.E.) was started in the Institute in July 2008 and it was affiliated to Gauhati University. Since August 2013, the department has started B.Tech degree course, under Assam Science and Technology University (ASTU) and has a curriculum with 84 courses/ 200 credits that include practical, seminars, training, projects etc. and covers subjects on basic sciences, humanities and technology. The course structure and syllabi for the branch are basically electrical power system oriented and encompasses theory courses like power systems, control system, power electronics, electrical machines, computer oriented analysis, industrial drives and control, high voltage engineering and other electives.



### Vision

To produce competent electrical engineers who contribute productively in the regional, national and global market and to become a centre of excellence in Electrical Engineering Education.

### Mission

- To provide educational experiences which are stimulating and well documented to needs of the century/country and thus preparing our students for leadership in profession and the society.
- To promote technical manpower through educative exposures like short term courses, workshops, seminars, interactive communication, group discussions, mock-interviews etc.
- To inculcate facilities in the arena of research and development.
- Empowering for a chosen career thus enabling the students to communicate effectively.
- To ensure the students with an even ability so that they are well equipped to meet the challenges in education, work and life.

### Programme Educational Objectives (PEOs)

**Physical Resource:** The department will facilitate the students and faculty members with latest hardware and software products in laboratories for meeting the following goals:

- Students can avail curricular and co-curricular activities.
- Undertaking R&D consultancy projects by the department.
- Undertake higher or advance research work relevant to the profession by joint team.

### Higher Studies and Research:

- To provide students with a sound foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and prepare them for graduate studies.
- To provide value addition programs to develop abilities for seeking admissions in PG and PhD programs in

Indian as well as in foreign universities.

- Employability Skills:
- The department will ensure that the faculty members and other employees demonstrate professional behavior as role models of the students.
- The department will ensure to integrate development of technological and communication skills together.
- The department will ensure that faculty and students use innovative methods of self learning and facilitating learning to inculcate and nurture life-long learning skills.

## **Personality Development:**

- The department will ensure that the faculty, staff and students practise the behaviours related to time management, self-discipline, positive attitude, honesty, integrity and so on.
- The department will organize departmental seminars on regular basis on themes such as innovations in technology or innovations in delivering and accessing the technical contents.
- The department will ensure to adopt the approach of self-development group for developing the personalities and competence of faculty and the students.

**Career Preference:** The department expects that the graduates will pursue career in the following streams-

- Energy Technology
- Energy and Drives
- Power system design and commissioning
- IC design
- Higher Education
- Entrepreneurship

## **Programme Outcomes (POs)**

A Graduate in Electrical Engineering will be able -

- To apply knowledge of science, mathematics and electrical engineering fundamentals appropriate to the discipline.
- To Analyze problem and prescribe an appropriate solution.
- To Design, implement, and evaluate an electrical-based system, process, components to meet desired needs with appropriate consideration for public health and safety, cultural, societal, economical and environmental issues.
- To Design and conduct experiments, as well as analyze and interpret data obtained from the electrical system.
- To use current techniques, skills, and modern tools necessary for development of electrical power system.
- To analyze the local and global impact of electrical system on individuals, industries, organizations and society.
- To apply engineering and management principles to one's own work, as a member and leader in a team, to manage projects.
- To implement effective communication skills in their social and professional life such as
  - a)Speaking and listening.
  - b)Reading and writing.
  - c)Interpret and prepare visual cues.

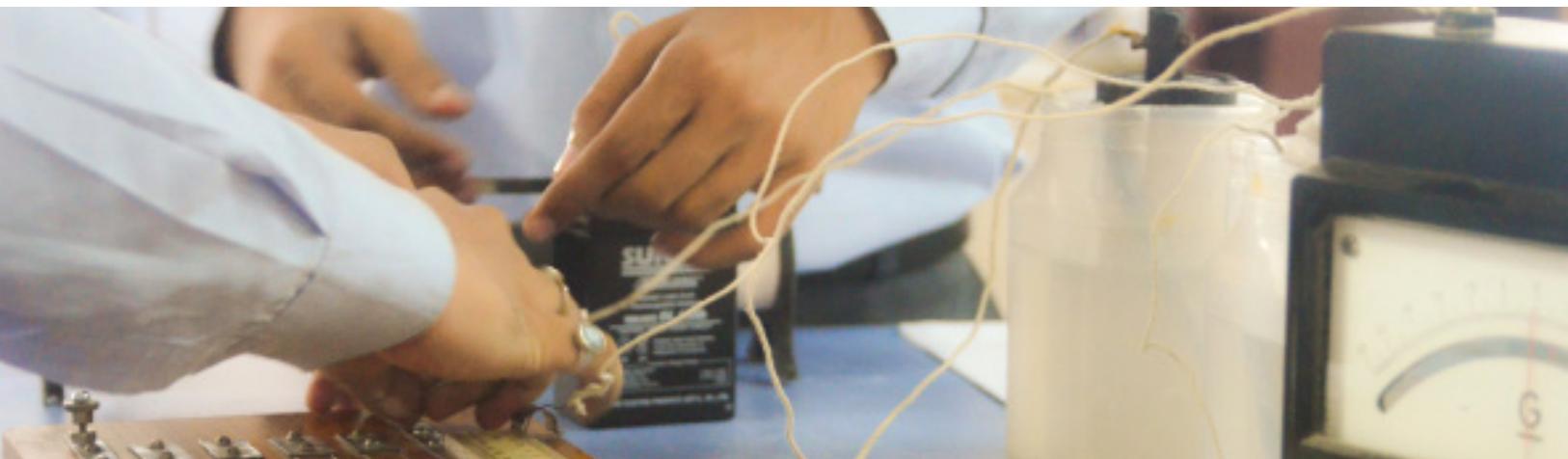
- To understand professional, ethical, legal, security, social issues and responsibilities to accomplish a common goal for the development of society.
- To harness renewable or non-conventional energy sources that reduces the harmful impact on society.
- To practise time-management and life-long learning.

## Program Details

<b>Degree Offered</b>	Bachelor of Technology in Electrical Engineering(Affiliated to Assam Science and Technology University ) <i>provisionally Accredited by NBA for the year 2016-17 &amp; 2017-18</i>
<b>Duration</b>	4 years (8 semesters)
<b>Intake</b>	60 (1st semester level )
	12 ( 3rd semester level ) through lateral entry.

## Core Subjects Offered

Basic Electrical & Electronics Engineering	Power System I and II
Circuits Analysis	Microprocessor and Microcontroller
Material Science	Signals and Systems
Electrical Machines I& II	Non-Conventional Energy Sources
Analog Electronics	Communication Engineering
Measurements & Instruments	Electrical Drives and Control
Electromagnetic Fields	Instrumentation Engineering
Digital Electronics	Power System Operation and Control
Control System I and II	Operations Research
Power Electronics	Power Plant Engineering
	Computer Aided Design



## Faculty Members




**Mr. Sanjib Hazarika, B.E., M.Tech., Pursuing Ph. D,**  
Assistant Professor & HOD (i/c)

- Prof. Pradip Kumar Goswami, Professor, B.E. (DU), M.Tech. & Ph. D. (IIT Bombay)
- Mr. Debdeep Saha, Assistant Professor, B.E ,M. E. , Pursuing Ph.D(on study leave)
- Mr. Prithvi NarayanSinha, Assistant Professor, B.E ,M. E. , Pursuing Ph.D
- Ms. Pushpa Gaur, Assistant Professor, B.E ,M. E. , Pursuing Ph.D(on study leave)
- Ms. Suranjana Bharadwaj, Assistant Professor, B.E ,M. E. , Pursuing Ph.D
- Ms. SangitaChoudhury Assistant Professor, B.E ,M.Tech
- Mr. Brajesh Mohan Gupta, Assistant Professor, B.E ,M. E. , Pursuing Ph.D
- Ms. NishaGoswami, Assistant Professor, B.E, M.Tech.
- Mr. Bipul Kumar Talukdar, , Assistant Professor, B.E ,M. E. , Pursuing Ph.D
- Mr. Manish Paul, Assistant Professor, B.E, M.Tech.
- Ms. Pallavi Roy, Assistant Professor, B.E, M.Tech.
- Mr. BiplobjyotiSaikia, Assistant Professor, B.E, M.Tech.
- Syed AshiqueHussain, Assistant Professor, B.E, M.Tech.
- Mr. Raj Kamal Kakoti, Assitant Professor, B.Tech, M.Tech.
- Ms. Malini Palit, Assitant Professor, B.Tech, M.Tech.

## Laboratory Instructors



- Mr. Pradip Mishra Bhagawati, Diploma in Electrical Engineering, B. Sc
- Mr. Rupam Sarmah, Diploma in Electrical Engineering
- Mr. Amar Jyoti Saikia, Diploma in Electrical Engineering
- Mr. Shiv kumar Chetry, Diploma in Electrical Engineering, ATOCAD-2D

## Special Feature of the Department



**Laboratories:**The Department of Electrical Engineering has the following laboratories fully equipped for respective theory courses:

1. Basic Electrical and Electronics Engineering I & II Laboratory
2. Electrical Machines I & II Laboratory
3. Measurements and Instrumentation Laboratory
4. Analog Electronics Laboratory
5. Power Electronics Laboratory
6. Numerical Methods and Computation Laboratory
7. Circuit Analysis Laboratory
8. Control Systems I & II Laboratory
9. Power System Laboratory
10. Digital Electronics Laboratory

11. Control System I & II Laboratory
12. Project Laboratory

Besides these, few laboratories like Physics Lab, Chemistry Lab, Workshop, Microprocessor & Microcontroller, etc. are shared by other Departments of the institute to our students.

## Research Activities and Grants:

- 
- AICTE funded lab set up under MODROBs (Modernisation & Removal of Obsolescence) named VIRTUAL CONTROL SYSTEM LAB to carry out different projects on Electrical as well as Electronics Engineering. This project is implemented using the software named "LABVIEW" which also incorporates real time applications.
  - A Project laboratory on PLC & SCADA and Process Automation is setup under RPS (Research Promotion Schemes).
  - A 2.0 kW off grid solar power plant has been established in GIMT Campus under Suryamitra which is a skill development programme for diploma level students. Main objective of this programme is to create skilled manpower in the solar energy sector. The syllabus and guidelines of this programme is developed by National Institute of Solar Energy (NISE) and coordinated by State Nodal agencies, eg. AEDA.
  - Our faculties have extensive experience in industry, research as well as teaching. Our strength is a reflection of their skills, innovation & drive. Our staff members typically have a high sense of working together to ensure academic & research excellence.

## Publications of Faculty Members:

- 
- Publication in Journals: - 45
  - Publication in Conference: - 11

## Departmental Libraries:



The department of Electrical Engineering has a separate library for the faculties and students of the department where more than 500 reference books as well as few magazines are available.

## Departmental Magazine:

The department of Electrical Engineering publishes a technical magazine "POWER- Path of Wisdom in Electrical Region" in every academic year. The purpose of it is to provide a platform to students and faculties to address global issues, career development topics, innovative ideas, research and important technical developments in electrical region and also to showcase the various achievements, activities and events of the department.

Besides this, the department has been annually publishing a wall-magazine-SRIJON to showcase the creativity in literature field of students as well as faculties.

## Other Departmental Activities:

The department regularly organizes Symposiums, Talk-show, Technical Quiz, etc. in every academic session. Moreover, the department arranges industrial tour, excursion etc. for the final year students.



# DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING(ECE)

## ABOUT THE DEPARTMENT

The Department of Electronics & Communication Engineering was started in September 2006 affiliated to Gauhati University. Since 2013, B. Tech. degree program has commenced and is affiliated to Assam Science & Technology University (ASTU). The curriculum with 48 Courses/ 37 practicals / 239 credits covers core subjects of Basic Science, Mathematics, Humanities and Technology alongwith besides vital areas of Electrical Engineering, Electronics Engineering and Computer Science and Engineering with emphasis on various fields of Communication Engineering. Students get hands-on experience through numerous practicals / seminars / industrial training / projects.

The Department, has started the Master of Technology in Electronics and Communications Engineering in the year 2014 with the approval from AICTE and affiliation from Assam Science and Technology University. The main objective of starting the Programme is

to create Masters in Electronics Engineering to fulfill the need of higher academic research and industrial need to cope with the present era of technology. The motto of the department is to impart quality education.



### Vision

To achieve academic excellence by putting our best efforts to attain the highest standards in our curricular system that can offer ample opportunities to the students to pursue quality technical education.

### Mission

To produce global professional engineers who are capable of analyzing, specifying, designing, commissioning and maintaining complex electronic and communication systems to enable a continuation of the improvement in standards of living enjoyed by society through the ingenuity of engineers.

### Programme Educational Objectives (PEOs)

**Physical Resource:** The department will procure the latest state of the art hardware or software products to upgrade the facilities in laboratories for meeting the following goals:

- Students can take Curricular and Co-curricular activities.
- Undertaking R & D consultancy projects.
- Undertake higher or advanced research works.

**Academic Competence:** The department will appoint competent faculty members and will organize FD/ SD programs on regular basis, sponsor them for further education and for participating in national/international conferences to upgrade their competence. The department will also provide students with solid foundation in the mathematical, scientific and engineering fundamentals.

**Higher Education and Research:** The department will ensure to inculcate the spirit of enquiry, creativity, collaboration, adaptability, problem solving strengths and self learning to prepare the students and faculties for higher studies and research.

**Professionalism:** The department will ensure that the faculty, staff and students demonstrate the behavior related to time management, self discipline, positive attitude, integrity and so on. The department will ensure to adopt self development group approach for developing the personalities and competence of faculty and students.

**Social Responsibility:** The department will try to organize socializing activities such as:

- Inter departmental seminars
- Publication of Institute magazines
- Official picnics
- College annual fest
- Industrial visits.
- Organizing engineering model exhibition under the guidance of faculties
- Organizing lecture sessions with experts from different fields

**Career Preference:** The department expects that the graduates of this program are likely to contribute excellence in the following sectors:

- Core Electronic Engineering Technology
- IC Design Technology
- Robotics
- Embedded System Design
- Communication Engineering Technology
- Pursuing higher education
- Becoming an entrepreneur

## Programme Outcomes (POs)

Program outcomes are narrower statements that describe what students are expected to know and be able to do by the time of graduation. This relate to the skills, knowledge and behaviors that students acquire in their program. A graduate in Electronics and Communications Engineering will be able

- To apply knowledge of mathematics, science and engineering
- To design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.
- To function on multidisciplinary teams
- To identify, analyze, specify and solve engineering problems.
- To understand the professional and ethical responsibility
- To illustrate the engineering solutions in a global economic, environmental and social context
- To practice the need for, and an ability to engage in life-long learning
- To use the techniques, skills and modern engineering tools necessary for engineering practice.
- To acquire effective communication skills such as
  - Speaking and listening
  - Reading and writing

## Program Details

<b>Under Graduate Degree Offered</b>	Bachelor of Technology in Electronics and Communications Engineering (Affiliated to Assam Science and Technology University ) <i>Provisionally Accredited by NBA for the year 2016-17 &amp; 2017-18</i>
<b>Duration</b>	4 years (8 semesters)
<b>Intake</b>	120 (1st semester level )  24 ( 3rd semester level ) through lateral entry.
<b>Post Graduate Degree Offered</b>	Master of Technology in Electronics and Communications Engineering (Affiliated to Assam Science and Technology University )
<b>Duration</b>	2 years (4 semesters)
<b>Intake</b>	18 (1st semester level )

## Core Subjects Offered

### For Bachelor of Technology in Electronics and Communication Engineering

Basic Electrical & Electronics Engineering – I	Signals & Systems
Basic Electrical & Electronics Engineering – II	Random Variables & Stochastic Processes
Basic Mechanical Engineering	Microprocessor & Applications
Basic Civil Engineering	Electromagnetic Field Theory
Engineering Graphics	Analog Communication
Environmental Science	Power Electronics
Network Analysis	Control System
Semiconductor & Electronic Devices	Digital Signal Processing
Analog Electronic Circuits	Microcontroller & Applications
Digital Electronics	Microwave Engineering

Digital Communication	Embedded System
Data structure	Information Theory & Coding
VHDL & Digital System Design	Satellite Communication & Remote Sensing
Computer Communication Networks	Optical Communication
Linear Integrated Circuits	Computer Architecture & Organization
Antenna & Wave Propagation	Digital Image Processing
Wireless Communication	Fuzzy Logic and Neural Networks
Telecommunication Switching & Transmission Systems	Radar Engineering
VLSI Design	CAD for VLSI
	Biomedical Engineering

### For Master of Technology in Electronics & Communications Engineering

Linear Algebra and Optimization	VLSI System Design
Photonics and Optical Communication	Analog IC Design
Digital IC Design	Statistical Communication
VLSI Lab-I	Speech Signal Processing
Communication System Simulation	Fundamentals of VLSI CAD
Advanced Digital Communication	Cryptography and Network Security
Advanced Networks	VLSI DSP
Semiconductor Device Modelling	Biomedical Signal Processing
Image Processing and Pattern Recognition	VLSI System Testing
Wireless Communication	



## Faculty Members



**Dr. Anindita Bora, M. Tech., Ph.D**  
Assistant Professor & HOD (i/c)

- Prof. Abhijit Nath, . Professor , B.E., M.Tech
- Mr. Pranjal Gogoi, Asst Professor, B.Tech, M.Tech pursuing
- Ms. Sharmila Nath, Asst Professor, , M.Tech., Persuing Phd
- Ms. Atlanta Choudhury, Asst Professor, B.Tech, M.Tech., Persuing Phd.
- Ms. Gargi Kar Purkayastha, Asst Professor, B.E, M.Tech
- Mr. Agnimitra Borah, Asst Professor, B.Tech, M.Tech
- Mr. Alokojwal Das, Asst Professor, B.Tech, M.Tech., Persuing Phd
- Ms. Madhushree Sharma, Asst Professor, B.E, M.Tech., Persuing Phd
- Ms. Mayurakshi Roy Medhi, Asst Professor, B.E, M.Tech., Persuing Phd
- Ms. Gargi Kashyap, Asst Professor, B.E, M.Tech
- Ms. Arundhati Deka, Asst Professor, B.E, M.Tech
- Ms. Namrata Kataki, Asst Professor , B.E, M.Tech., Persuing Phd
- Ms. Mukti Nath Gogoi, Asst Professor, B.E, M.Tech., Persuing Phd
- Ms. Ridhi Bordoloi, Asst Professor, B.E, M.Tech
- Mr. Basab Das, Asst Professor, B.E, M.Tech
- Ms. Arifa Sultana, Asst Professor, B.E, M.Tech
- Mr. Abhinandan Kalita , Asst Professor, B.E, M.Tech

## Laboratory Instructors

- Mr. Mahesh Das, Laboratory Instructor, Diploma in Electronics and Telecommunication Engineering.
- Ms. Momi Kalita, Laboratory Instructor , Diploma in Electronics and Telecommunication Engineering
- Mr. Ranjit sinha, Laboratory Instructor , Diploma in Electronics and Communication Engineering, AMIE in Electronics and Communication Engineering,
- Ms. Chayanika Bohah, Laboratory Instructor , Diploma in Electronics and Telecommunication Engineering
- Ms. Sabita Boro, Laboratory Instructor, B.E, Electronics and Telecommunication
- Mr. Amlan Jyoti Dutta, Laboratory Instructor, B.E, Electronics and Telecommunication

## Special Feature of the Department

### Available Software Tools

- (a) Cadence
- (b) Xilinx
- (c) MATLAB
- (d) MultiSim & ViSim
- (e) Communication System Simulation,

Continue .....

## Specialized Laboratories

These specialized laboratories are set-up for highly motivated students and faculties towards pioneering applied research, using their creative talents to pioneer new Technology.

**(1) CADENCE VIRTUOSO:** This tool introduces various stages of IC designing, complex and high level SOC's. The future and scope of VLSI is immense in NANO – electronics and Microelectronics. VLSI Engineers and Designers are among the most highly paid professionals in the industry.

**(2) OPTICAL COMMUNICATION:** A research oriented laboratory on Optical Fiber Communication has been set-up in the department in-view of the growing use of Optical fiber in the field of communication and its research.

**3) DIGITAL SIGNAL PROCESSING LABORATORY**

**4) MICROWAVE ENGINEERING LABORATORY**

**5) MICROPROCESSOR AND MICROPROCESSOR LABORATORY**

**6) ANALOG AND DIGITAL COMMUNICATION LABORATORY**

## Publications of Faculty Members:

- Publication in Journals: 15
- Publication in Conference: 8

## Activities, Events organised the Departments

### Trainings

The institute T & P cell takes all the adequate measures to arrange the summer training at reputed companies and PSUs for all the students.

### Finishing school

Soft skill classes are mandatory for the students in the department. Presently certified technical courses under IIT Bombay named as Spoken Tutorials are running regularly in the department. Experts in the field of personality development visit the department for regular classes preparing students for Job interviews.

### GATE Coaching

In the department, classes for GATE coaching have been also arranged for final and pre final year students to encourage them to appear in the GATE examination.

### Workshops and Seminars

Every year the department organize number of workshops and seminars for students. Experts from other universities as well as industries also to visit the department enriching students with their knowledge.

### Co-Curricular Activities

The department organizes and encourages students to take part in various co-curricular activities like

Quizotronics, Technical paper writing competition, etc. for their overall development as an engineer.

### Industrial Tours and Excursions

To enhance and develop the technical and inter-personal skill of students, the department organizes Industrial tours and excursions. In the last few years, the students visited ISRO (Thiruvananthapuram), NESAC (ISRO) – Shillong, SAMEER – Kolkata and Puri.

### Placement

Passedout Students of the department are well placed in various companies like Genpact, Wipro, Falqume India Technology Pvt Limited, Horizon Telecom, Vodafone, L&T Infotech Limited etc. Many passed out students opted for higher studies and got admitted in various universities like Tezpur University, Gauhati university, IITG, NIT Silchar, NERIST etc. for M.Tech as well as MBA degree.

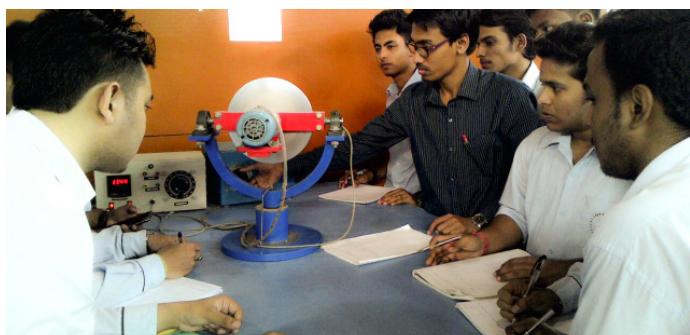


# DEPARTMENT OF MECHANICAL ENGINEERING(ME)

## ABOUT THE DEPARTMENT

The 4 year Degree course of Mechanical Engineering was started in July 2007 under the affiliation of Gauhati University. However, the affiliation was changed to Assam Science & Technology University in 2013. The curriculum covers a wide range of general subjects like Physics, Chemistry, Humanities, Economics and Accountancy, Mathematics. The core subjects include such as Basic Mechanical Engineering, Thermodynamics (Basic and Applied), Design including Computer Aided Design, Fluid Mechanics, Heat Transfer, IC Engines, Mechanisms and Machines, Workshop Technology & Advanced Manufacturing, Refrigeration and Air-Conditioning, Production Management, Optimization Technique, Power Plant Engineering, Turbo

Machinery, Gas Turbines & Jet Propulsion, Machine Tools and Industrial Engineering and Management. The students can enrich their learning experience through practical, seminars, industrial training and projects. Our motto is quality education through practical learning. Organization of Winter, Summer Schools on emerging areas beyond syllabus and Field visits to nearby Industries are also part of regular Co-curricular activities of this department.



### Vision

To produce professionally competent Mechanical Engineering graduates who will positively contribute towards the betterment of the global economy and entrepreneurship.

### Mission

- To educate the next generation of leaders in the Mechanical Engineering profession
- To provide a platform to create, explore, and develop innovations in engineering science and technology.
- To provide valuable service to the local, state, national, and international communities
- Successfully adapt the new technologies and stay current with their professions

### Programme Educational Objectives (PEOs)

**Physical Resource:** The department will procure latest hardware and software products to upgrade the facilities in laboratories for meeting the following goals

1. Students can take curricular and co-curricular activities.
2. Undertaking R&D consultancy projects by the department.
3. Undertake higher or advance research work relevant to the profession by joint team.

### Higher Studies and Research:

1. To provide students with a sound foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering problems and prepare them for graduate studies.
2. To provide value addition programs to develop abilities for seeking admissions in PG and PhD programs in India as well as in foreign universities.

### **Employability Skills:** The department will

- 1.ensure that the faculty members and other employees demonstrate professional behaviour as role models of the students.
- 2.ensure to integrate development of technological and communication skills together.
- 3.ensure that faculty and students to use innovative methods of self-learning and facilitating learning to inculcate and nurture lifelong learning skills.

### **Personality Development:** The department will

- 1.ensure that the faculty, staff and students demonstrate the behavior relative to time management, self-discipline, positive attitude and integrity and so on
- 2.organize seminars on regular basis on themes such as innovations in technology and innovations in delivering and assessing the technical content.
- 3.ensure to adapt self-development group approach for developing the personalities and competence of both faculty members and students.

### **Social Responsibility:**

- 1.To create awareness among students to do good for the society and the environment
- 2.The department will try to organize socializing events such as :

- (a)Inter departmental seminars
- (b)Publication of Institute magazine
- (c)Having official picnics
- (d)College annual fest
- (e)Industrial visit
- (f)Health awareness camp
- (g)Organizing engineering model exhibition
- (h)Interactive sessions with experts of different fields

### **Career Preference:** The department expects that of the graduates of this program are likely to contribute excellence in the following sectors:

- 1.Design and Manufacturing
- 2.Production
- 3.Pursuing higher education
- 4.Becoming an entrepreneur
- 5.Industrial Management

## **Programme Outcomes (POs)**

**A graduate in Mechanical Engineering will be able,**

- To apply the knowledge of Mathematics, Science and Engineering
- To design and conduct experiments, also analyze and interpret data.
- To design a system, select the components and process to meet the desired goal within the realistic

constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.

- To apply engineering and management principles individually or in a team in a multidisciplinary environment.
- To identify, analyze, specify and solve engineering problems.
- To exhibit professional and ethical behavior.
- To acquire effective communication skills such as
- Speaking and listening
- Reading and writing
- Interpret and prepare visual cues
- To illustrate the impact of engineering solutions in global, economic, environmental and societal contexts.
- To practice time management and life-long learning.
- To apply modern techniques, resources and engineering tools in the solution of engineering problems.
- To keep abreast with contemporary knowledge, issues and technological developments ( Techniques, Skills )

## Program Details



<b>Degree Offered</b>	Bachelor of Technology in Mechanical Engineering (Affiliated to Assam Science and Technology University ) <i>Provisionally Accredited by NBA for the year 2016-17 &amp; 2017-18</i>
<b>Duration</b>	4 years (8 semesters)
<b>Intake</b>	120 (1st semester level )  24 ( 3rd semester level ) through lateral entry.

<b>Post Graduate Degree Offered</b>	Master of Technology in Thermal and Fluid Engineering (Approved by AICTE ) <i>Planning to Start in the session 2017-18</i>
<b>Duration</b>	2 years (4 semesters)
<b>Intake</b>	18 (1st semester level )

## Core Subjects Offered

Basic Mechanical Engineering	Hydraulic Machines
Basic & Applied Thermodynamics	Integrated Design & Manufacturing
Machine Drawing	Industrial Engineering & Management
Primary Manufacturing	Internal Combustion Engine
Mechanics of Materials	Machine Tools & Machining
Fluid Mechanics	Gas Turbine & Jet Propulsion
Material Science	Computer Aided Design
Mechanism & Machines	Refrigeration & Air Conditioning
Heat Transfer	Turbo Machinery
Metrology & Instrumentation	Power Plant Engineering
Machine Design including CAD	Optimisation Technique
Operation Research	Project & Production Management
Numerical Methods & Computation	Project work with adequate Industrial exposure

## Faculty Members



**Dr. Bhaskor Jyoti Bora, B.E, M.Tech, PhD**

Assistant Professor & HOD (i/c)

- Prof. Susanta Kumar Dutta, Professor, B.E, M.Tech, PhD
- Prof. Pradip Kumar Dutta, Professor, B.E, M.Tech, PhD
- Dr. Buljiti Buragohain, Asst. Professor, B.E, M.Tech, PhD
- Dr. Anal Ranjan Sengupta, Asst. Professor, B.E, M.Tech, PhD
- Mr. Debarshi Mallick (On study leave), Asst. Professor, B.E, M.E, Pursuing PhD
- Mr. Angshuman Chatterjee, Asst. Professor, B.E, M.E.
- Mr. Akashdeep Goswami, Asst. Professor, B.Tech, M.E
- Ms. Sangeeta Das ( On study leave), Asst. Professor, B.Tech, M.E, Pursuing PhD
- Mr. Rajib Bhowmik, Asst. Professor, B.Tech, M.E, Pursuing PhD
- Ms. Sanzida Tasmin Ali, Asst. Professor, B.E, M.Tech
- Mr. Bhabajit Baruah, Asst. Professor, B.E, M.E. Pursuing PhD
- Ms. Neelam Goswami, Asst. Professor, B.E, M.E. Pursuing PhD
- Mr. Swapnaneel Sarma, Asst. Professor, B.E, M.Tech
- Mr. Himangshu S. Brahma, Asst. Professor, B.E, M.Tech
- Mr. Rakesh Nath, Asst. Professor, B.E, M.Tech
- Ms. Nilakshi Sarmah ( On study leave ), Asst. Professor, B.E, M.E, Pursuing PhD
- Ms. Sharmi D. Sharma, Asst. Professor, B.E, M.E. Pursuing PhD
- Mr. Dheeman Bhuyan, Asst. Professor, B.E, M.E
- Mr. Jugal Saharia, Asst. Professor, B.E, M.Tech

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## Laboratory Instructors

- Mr. Joydeep Gupta, Laboratory Instructor, Diploma in Mechanical Engineering
- Mr. Subijit Sinha, Laboratory Instructor, Diploma in Mechanical Engineering
- Mr. Paras Kumar Das, Laboratory Instructor , Diploma in Mechanical Engineering
- Mr. Neelam Bharatduwaj, Laboratory Instructor, Diploma in Mechanical Engineering

## Special Feature of the Department

- Gate coaching support
- Presence of advanced software such as Creo in the laboratories
- MoU with Bosch for certified training within the campus
- Presence of sophisticated industrial equipments such as fire tube boiler, CNC, UTM, etc. within the laboratories

## Laboratories

**1. Basic Mechanical Engineering Lab:** Several innovative experiments have been designed enabling students to acquire basic knowledge on working of IC engines, boilers including Mountings & accessories, brakes & clutches, governors, gear trains etc. as well as conducting experiments to establish different laws of forces.

**2. Mechanism & Machines Lab:** Models of mechanisms and their inversions & working models of universal governors, balancing apparatus, belt drives, apparatus for Coriolis component of acceleration, Universal vibration set up, gyroscope etc. are available in this lab where students perform a number of hands on experiments.

**3. Fluid Mechanics Lab:** In this Lab, the students are to perform a number of experiments concerning Vortex flow, Reynolds number, pipe friction, Metacentric height, Bernoulli's Theorem etc. in the existing Laboratory set-ups

**4. Heat Transfer Lab:** Several experiments on heat transfer through solids, liquids, powder and composite walls and other experiments using Stefan Boltzmann Apparatus, heat pipe, emissive apparatus etc. are being performed by students in this Lab.

**5. Metrology & Instrumentation Lab:** Several experiments based on measurement of pressure, temperature, speed, torque, displacement, force, strain, load etc. are being performed in this lab.

**6. Material Testing Lab:** Several material testing machines like Brinell cum Rockwell Hardness tester, Impact testing machine, Fatigue testing machine, Torsion testing machine including a 100 TON UTM machine (funded by AICTE under MODROB scheme) are installed to conduct a large number of experiments and

project related activities..

**7.CAD Lab:** This facility is created for design related project work and research based activities of students of the department.

**8.CNC lab:** A CNC machine has been installed in the Department under MODROB project funded by AICTE as a part of Advanced Manufacturing Lab. Final Year students' project can be executed in this State of Art machine.

**9.Refrigeration and Air conditioning Lab:** This Lab houses equipment like Refrigeration and Air-conditioning test rigs, Ice plant Trainer, Electrolux Refrigerator etc. to carry out a number of experiments on Refrigeration and Air-conditioning

**10.IC Engines Lab:** 4-stroke 4-cylinder Petrol and Diesel Engines Test Rigs are installed to conduct a variety of experiments pertaining to IC Engines as well as for students' project related work

**11.Fuel Injection Centre:** A state of art "Fuel Injection Lab" was established with the help of BOSCH Ltd. and a Training Centre of BOSCH has been functioning under this department.

*The First year students are also required to attend Physics and Chemistry Laboratories and Workshop.*



## Library

The departmental library is well stocked with titles, laboratory manuals, important journals and project thesis for the use of both faculty members and students.

## Publications

- Publication in Journals: 32
- Publication in Conference: 19

## Departmental Initiatives

Students are encouraged to participate in GIMT Workshops on Aero-modeling, robotics, etc. Students get involved in co-ordination activities related to such workshops.

## Other Activities

The department, with collaboration with Students chapter of the Institution of Engineers (India), Assam State Centre, conducts Seminar, workshop regularly. Interactive programmes are also held regularly. "Yantrik Cult" is an initiative by the Mechanical Engineering students, which organizes technical talks, seminars, workshops etc. on regular basis along with several steps towards social development. The department also organizes Winter and Summer Schools for its students in the emerging areas pertaining to Mechanical Engineering, which are not covered under the existing syllabus.



# DEPARTMENTS OF

# BASIC SCIENCES

# AND

# HUMANITIES

# DEPARTMENT OF CHEMISTRY

## ABOUT THE DEPARTMENT

The Department of Chemistry started functioning from September 2006. The prescribed B.Tech syllabi of Assam Science and Technology University are followed for classroom instructions and laboratory experiments. The department provides facilities and offers helpful suggestions to the students conducting projects related to chemistry.



## Faculty Members



### **Dr. Bidyabati Bordoloi Bhuyan, M.Sc., Ph.D.**

Professor and HoD

Former Associate Professor, Department of Chemistry, Cotton College, Guwahati

- Prof. B. C. Bhuyan, Professor, M.Sc., M.Phil, Ph.D
- Dr. Kajal Dutta, Asst Professor, M.Sc., Ph.D.
- Dr. Swarnali Pathak, Asst Professor, M.Sc., Ph.D.
- Dr. Pradyumna Goswami, Asst Professor, M.Sc., Ph.D

## Laboratory Instructors

- Mr. Bhaskar Chakravarty, M.Sc

## Publications of Faculty Members:

- Publication in Journals: 16
- Publication in Conference: 22

The Department of Chemistry has initiated research work in the field of Chemical Sensor, Coordination Chemistry, Biofuels, Synthetic organic chemistry and Nanotechnology with the help of financial aid obtained from AICTE, Govt. of India under RPS and MODDROBS scheme.

# DEPARTMENT OF PHYSICS

## ABOUT THE DEPARTMENT

The Department of Physics was started in September 2006. It follows the syllabi of Physics prescribed by Assam Science and Technology University for the B.Tech first year students of all the existing engineering disciplines. The programme is assisted with 19 practicals including spectroscopic, heat and basic electrical and electronics experiments. Excellence in teaching has been the hallmark of the department ever since its inception.



## Faculty Members



**Dr. Ajanta Deka, M.Sc., Ph.D**  
Assistant Professor and HoD Incharge

- Dr. Dilip Sarma , Visiting Faculty (Resource Person from academics) , Retd. HoD , Deptt. of Physics, Cotton College
- Dr. Lipi Goswami, Asst Professor, M.Sc., Ph.D
- Dr. Nandita Lahkar Kalita, Asst Professor, M.Sc., M.Phil.,Ph.D
- Dr. Smritimala Sarmah, Asst Professor, M.Sc., Ph.D
- Ms. Priya Bharali, Asst Professor, M.Sc., pursuing Ph.D

## Laboratory Instructors

- Ms. Mamani Das, Instructor, M.Sc
- Mr. Dharani Mazumdar, Instructor, M.Sc, M.Tech

## Publications of Faculty Members:

- Publication in Journals: 36
- Publication in Conference: 65
- Book: 3

The Department has completed one research project (Ref. No. 8023/RID/RPS-13/2011-12) funded by AICTE with Dr. Ajanta Deka as the Principal Investigator. The Department invites resource persons from academics from time to time to deliver talks on topics concerning current research in Physics and other related areas.

# DEPARTMENT OF MATHEMATICS

## ABOUT THE DEPARTMENT

The Department of Mathematics was started in September, 2006. It offers all courses related to mathematics to the students of all the existing engineering disciplines. Excellence in teaching has been the hall mark of the department ever since its inception.



## Faculty Members



### Prof. Dilip Kumar Sarma, M.A., M. Phil, Ph.D.

Professor and HOD

Formerly, Head, Department of Mathematics, Cotton College, Guwahati

- Prof. Upendra Nath Misra, Professor, M.Sc., Ph.D
- Dr. Madhumita Mahanta, Asst Professor, M.Sc., Ph.D
- Dr. Priyanka Pratim Baruah, Asst Professor, M.Sc
- Ms. Moytri Sarmah, Asst Professor, M.Sc., pursuing Ph.D
- Ms. Sanchita Chetia, Asst Professor, M.Sc., pursuing Ph.D
- Mr. Banajit Sarma, Asst. Professor, M.Sc., pursuing Ph.D

## Research areas of the faculty members

- Algebra and Graph Theory
- Fuzzy Mathematics
- Fluid Mechanics

## Publication of Faculty Members

Published in	National	International
Journal	3	30

Continue .....

## Conferences/ Workshops attended by faculty

Published in	National	International
Conference	37	10
Workshop	20	

Number of books published: 06

## National Conferences and Workshops on Mathematics organized:

The department organized a National Conference on Mathematics commemorating the birth anniversary of Srinivasa Ramanujam on 23 December 2013. Over 120 faculty members from various colleges of Assam participated in the conference, making the conference a grand success. The department has been celebrating National Mathematics Day since 2014 (in collaboration with Assam Academy of Mathematics in 2016), organizing a series of lectures delivered by eminent Professors from Department of Mathematics, Gauhati University, Cotton College and IIT Guwahati alongwith other activities. The department also organized a workshop entitled “Short Term Course on Higher Secondary Mathematics” from June 20 to 24, 2016. The course was conducted with an aim to provide basic concepts of various important parts of mathematics to the students of higher secondary level. More than 50 students of different schools and colleges of Guwahati participated in this five-day workshop.

# DEPARTMENT OF HUMANITIES

## ABOUT THE DEPARTMENT

The Department of Humanities was established in 2010 by merging Department of English and Sociology. Presently, the department is dealing

with various subjects viz. Communication Skills, Sociology, Environmental Science, Economics and Accountancy, Engineering Ethics, Disaster management, Engineering for Sustainable Development etc for the B.Tech students of all batches. The faculty members of this department are competent to give training and counseling in different fields like Academic writing, Syllabus design, career oriented training, human rights etc. A language laboratory, with software provided by Orell Digital Language Lab, has

been functioning to provide students with the best knowledge of spoken English so that they are fit to face any interview.



## Faculty Members



**Ms. Kritanjali Jaiswal, M.A, B.Ed, PGDC (in Human Rights)**

Asst Professor and HOD (i/c)

- Ms. Manashi Devi, Asst Professor, M.A, B.Ed
- Ms. Priti Sarmah, Asst Professor, M.A, B.Ed, pursuing PhD
- Ms. Akrista Bora, Asst Professor, B.Com, MBA
- Ms. Mahfuja Begum, Asst Professor, M.A, M.Phil, pursuing PhD

Published in	National	International
Journal / Conference	12	5

# DEPARTMENT OF BUSINESS ADMINISTRATION

## ABOUT THE DEPARTMENT

**A**t GIMT, we strive towards our commitment of academic excellence and our endeavour is essentially two-fold as we intend to help our students to realize their full potential in their journey to become successful managers and entrepreneurs, and also aim at creating and disseminating knowledge through our offered MBA programme. In congruence with our institute's vision, the Department of Business Administration was established in July, 2008. At present, the Department offers a full-time two-year Master in Business Administration (MBA) programme under the Assam Science and Technology University with dual specialization in the areas of Finance, Human Resource, Marketing and Production.

The Department boasts of its excellent young team of Faculty members with interdisciplinary background who are drawn from the premier institutes. 'The urge to learn and make others learn' has been the motto of our teaching fraternity. Moreover, the Faculty represents an excellent conglomerate of industry-academia exposures. Accordingly, the latest trends in Management education are incorporated in our teaching methodology. This is reflected in our students' performance in University examinations as

well as in final placements of our students in reputed organizations. It is worth mentioning that a few of our students got job offers in their third semester itself and many in their final semester. Further, with many companies lined up for our campus recruitment drives, we expect 100% placement for our outgoing batch of 2017 also by June 2017.



### Vision

To produce leaders who possess knowledge, skills and abilities necessary to adapt to the dynamic business environment and thereby contribute towards the growth of the nation.

### Mission

- To develop ethically conscious and socially responsible managers who are capable of contributing to the development of the nation and enrich the quality of life.
- To educate and empower our students with business knowledge that will transcend the standards of regional and national business culture.
- To achieve excellence in research and academics in the field of management.

### Programme Educational Objectives (PEOs)

- To develop the department's structure, systems and intellectual capital to enable the department to fulfil its mission.
- To provide a supportive and stimulating academic environment to the students that would be congenial

for them to develop their expertise and knowledge in the field of management.

- To develop valuable life skills of students and transform them to a total personality so that they are enabled to think independently, argue critically, solve problems and communicate effectively at a level which reflects their competency.
- To motivate students to bring out the best in them and foster creativity, innovation and effective team building and promote team spirit so that they can work effectively in a team in practical field.
- To enrich the knowledge-base of management through applied and conceptual research and quality publications.
- To enrich the knowledge and skills of the teaching fraternity of various management institutes in the region through Staff/Management Development Programmes.
- To collaborate with the corporate and other academic institutions of repute for the furtherance of management education and research and also for bridging the line of divide.

## Program Details

<b>Degree Offered</b>	MBA under Assam Science & Technology University (ASTU)
<b>Duration</b>	2 years (4 Semesters)
<b>Intake</b>	60 at 1st Semester level

## About the MBA Programme

The MBA program of Assam Science and Technology University offers a total of 37 courses spread over 4 semesters. Apart from core and specialization papers, students need to select an elective course also. The purpose is to provide students a wide range of exposures to different area of management.

Moreover, a part fulfilment of the curriculum, the students are required to undergo 2-month Industry Internship Project (Summer Project) in reputed organizations and prepare a Project Report. The summer training placements are looked after by the Training and Placement Cell of the Institution with strong Faculty back-ups. The Summer Projects are evaluated by External Examiner of repute. Further, in the 4th Semester, students are also required to prepare a Final Semester Project on a topic of their area of specialisation under the guidance of a Faculty Member. The report is also evaluated by External Examiner of repute.

Continue .....

# Course Structure



<b>First Semester (Credit: 25)</b>	<b>Second Semester (Credit: 25)</b>
Principles of Management	Research Tools & Techniques
Organisational Behaviour	Financial Management
Managerial Economics	Marketing Management – II
Financial Accounting	Human Resource Management
Quantitative Techniques in Management	Production & Operations Management
Marketing Management - I	Corporate Environment
Computer Application in Business	Cost & Management Accounting
	Business Data Processing
Communication Skills for Managers	Communication & Behavioural Skills

<b>Third Semester (Credit: 25)</b>	<b>Fourth Semester (Credit: 25)</b>
Business Policy & Strategic Management	Project Management
Operations Research for Industry	Quality Control & Management
Business Law	Technology & Innovation Management
Industry Internship Project *	Final Semester Project*
<b>Finance Group</b>	<b>Finance Group</b>
Security Analysis and Portfolio Management	Financial Planning & Control Systems
Taxation Planning & Management	Financial Engineering & Derivatives Management
Behavioural Finance	International Finance
<b>HR Group</b>	<b>HR Group</b>
Human Resource Planning & Development	Performance Appraisal, Training & Development
Industrial Relations	Strategic Human Resource Management
Managing Organisational Change & Development	Negotiation & Counseling
<b>Marketing Group</b>	<b>Marketing Group</b>
Brand Management & Advertising	Marketing Research and CRM
Supply Chain Management	Rural Marketing Concepts and Practices

Consumer Behavioural Analysis and Retailing	Marketing of Services
<b>Production Group</b>	<b>Production Group</b>
TQM & Six Sigma	Supply Chain & Logistics Management
Service Operation Management	TPM & Lean Manufacturing
Operation Strategy Planning & Control	Modern Operations Research Techniques for Industry

**Elective Paper (Any ONE) in FOURTH SEMESTER**

Travel and Tourism Management	Event Management
International Marketing & Trade	Computer Aided Project Management
Management of Non-Government Organisations	Enterprise Resource Planning
Infrastructure Management	E-Commerce
Health Care Management	Construction Management
	Management of Financial Services

**\*\* Project-based****Faculty Members****Dr. Nilanjana Deb, MBA, Ph.D.**

Associate Professor &amp; HoD i/c

- Ms. Gitika Talukdar, Assistant Professor, MBA
- Mr. Rajdeep Deb, Assistant Professor, MBA, NET (MGMT), pursuing Ph.D
- Ms. Sampurna Bhuyan, Assistant Professor, MA (Eco), M.Phil., SET
- Md. Faruk Ahmed, Assistant Professor, MBA, pursuing Ph.D
- Mr. Dhruva Jyoti Sharma, Assistant Professor, B.Tech, MBA
- Mr. Avisek Purkayastha, Assistant Professor, BE, PGDM

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## Adjunct Faculty Member

### Ms. Junumoni Das, Personnel Manager (HR & Admin.), MBA, LLB., pursuing Ph.D

Further, the students are given the opportunity to have interactive sessions with the visiting Resource persons of repute from industry and academics.

## Special features of the Department

### Teaching Pedagogy

The Department endeavours to offer the latest developments in the field of Management by employing a mix of learning tools to provide conceptual knowledge and build skills and accordingly, the students are being moulded to take on the hustle-bustle of the corporate world. As mere theoretical and conceptual inputs in class-room setup would lead to incomplete accomplishment of knowledge on a discipline like Management, efforts are made by the Faculty to impart instructions in simulated settings and through rigorous exercises such as case studies, management games, GDs, role playing exercises, field studies, industrial visits etc. Moreover, the Department encourages individualised and one-to-one interaction.

The Department believes in comprehensive and continuous evaluation of students in order to ensure that their progress is satisfactory. Therefore, apart from the Semester-end Examinations conducted by the Assam Science and Technology University, the evaluation process comprises of term papers, regular class tests, group discussions, case studies, management games, role playing exercises, mock selling etc. This process is carried throughout the entire semester. Extensive care is taken that the students are evaluated not only on the theoretical contents but also on the practical aspect of the course.

Further, the Department is well equipped with all modern teaching tools like OHPs, MMPs and also a computer laboratory, case study/reading and library rooms etc.

### Training and Placement Activities

The Institution has an active Training and Placement Cell to facilitate Summer and Final Placements of our students. The T& P Cell maintains a close liaison with the Industry and other employers in order to facilitate the placement of the students. Moreover, the Cell tries to arrange interaction of the students with professionals from Industry regularly so as to provide them with first-hand knowledge of the industry. Earnest efforts are made to attract the best of the recruiters to pick up our students both via on-campus and off-campus recruitment process. The target, obviously, is to have all our students suitably placed before their final semester examinations.

### Industrial visits

Industrial visits are conducted from time to time to ensure that the students get the requisite exposure to the corporate world. Such visits are mandatory for all students pursuing the MBA programme. It is ensured that the students get the opportunity to avail 2 (two) such industrial visits in an academic year.

In previous Academic Sessions, our students had the privilege of visiting Bongaigaon Refinery, Hindustan Paper Corporation, Jagiroad, Emami Limited, Jyoti Lab., IOCL, North Guwahati, Guwahati Refinery, West Assam Milk Producers' Co-operative Union Ltd., Hindustan Coca-Cola Beverages Pvt. Limited, CG Foods Ltd.,

Sun Pharmaceuticals and Alkem Laboratories, Sikkim, SRD Nutrients (Horlicks) and Marico Limited.

## Finishing School

In order to enhance the employability skills of MBA students, efforts are made to provide soft skills training to the students on a regular basis along with the University curriculum. The Finishing School of the institute is entrusted with this responsibility.

## Students' Co-curricular activities

The Department encourages the students to organize seminars, workshops and awareness camp etc, for the benefit of the society. In this process, they understand the values of integrity and develop not only their organizing and leadership skills but also tolerance and mutual respect for each other. So far, the Department has organized seminars as well as awareness camps for the benefit of the less privileged people successfully. All these activities are conducted in and also out of campus.

Moreover, our MBA students have also proved their mettle in various competitions and in B-School Meets, by winning prizes in various events.

## Seminars/Workshops organised (partial list)

### Seminars

- Seminar on 'Employee Empowerment: Issues and Challenges' on March 14, 2012.
- Seminar on 'Individual Transformation: Key to Nation Building' on February 13, 2013.
- Seminar on 'Voluntary Blood Donation and Prevention of HIV/AIDS' on April 11, 2013
- Seminar on 'Motivation and Employability Skills of MBA Graduates' on March 28, 2015

### Workshops

- One-day Workshop on 'Computer Application in Social Science Research' on March 1, 2017

### Social Awareness

- The Department observed 'Vigilance Awareness Week' from October 31 to November 5, 2016.



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# DEPARTMENT OF

# COMPUTER

# APPLICATION (MCA)

## ABOUT THE DEPARTMENT

The Department of Computer Application under the umbrella of Girijananda Chowdhury Institute of Management and Technology was started in the year of 2009 with the objective of promoting specialized knowledge in the field of Computer Science and Application. With rapidly evolving technology and the continuous need for innovation, the department promotes active industry-institute collaboration by identifying areas of interest. The course under the department is approved by AICTE, New Delhi and is affiliated to Assam Science and Technology University, Guwahati.

*The USP of Computer Application Department is "Value Based Education using innovative teaching methodologies supported by state of the art laboratories and add on courses."*



### Courses

At present the department is offering a Postgraduate Programme i.e. **Master of Computer Applications (MCA)** which is a three year full time programme and includes course work, summer project and dissertation. The course is designed to develop appropriate skills and impart comprehensive knowledge in the field of computer applications. It covers pure computer subjects' viz., Data Structures, Algorithms, Computer Organization, Graph Theory, Object Oriented Programming and Design, Computer Graphics, Software Engineering, Formal Language and Automata Theory, Computer Networks, and many more.

Moreover the Programme has the provision for **Lateral Entry** admission in the 3rd semester as per the norms of AICTE and Assam Science and Technology University, Guwahati.

### Vision

To develop human resources of high caliber with moral ethics and employability potentials and to produce technically competent, socially committed technocrats

### Mission

To inculcate value based, socially committed professionalism to the cause of overall developments of students and society that leads to employment and entrepreneurship.

### Programme Educational Objectives (PEO)

**Physical Resource :** The department will procure latest hardware and software products to upgrade the facilities in laboratories for meeting the following goals:

- a. Students can take curricular and co-curricular activities.
- b. Undertake R&D consultancy projects by the department.

c.Undertake higher or advance research work relevant to the profession by joint team.

### **Higher Studies and Research :**

- a.To provide students with a sound foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze real world problems and prepare them for graduate studies.
- b.To provide value addition programs to develop abilities for seeking admissions in PG and PhD programs in Indian as well as in foreign universities.

### **Employability Skills :**

- a.The department will ensure that the faculty members and other employees demonstrate professional behaviour as role models of the students.
- b.The department will ensure to integrate development of technological and communication skills together.
- c.The department will ensure that faculty and students to use innovative methods of self learning and facilitating learning to inculcate and nurture lifelong learning skills.

### **Personality Development :**

- a.The department will ensure that the faculty, staff and students demonstrate the behavior related to time management, self discipline and positive attitude, integrity and so on.
- b.The department will organize departmental seminars on themes such as innovation in technology and innovation in delivery and assessing the technical content.
- c.The department will ensure to adopt self development group approach for developing the personalities and competence of both faculty members and students.

### **Social Responsibility :**

- a.To create awareness among students to do good for society and environment.
- b.The department is trying to organizing socializing activities such as inter-departmental seminars, having official picnic, annual function for faculties.
- c.Organizing engineering model exhibition under the guidance of faculty.
- d.Interactive sessions with experts from different fields.

### **Career Preference :**

The Department will also undertake the following activities like:

- a. Involve students in designing and maintaining web based applications.
- b. Involve students in building application software.
- c. Involve students in building mobile application like Andriod applications.
- d. Motivating students for pursuing higher education.

## **Program Outcomes (POs)**

PO-1 Ability to identify a problem definition, analyze it and define the computing requirements appropriate to its solution.

PO-2 Ability to inculcate programming skills and use analytic and empirical methods to design and evaluate technical problems and their solutions

- PO-3 Ability to document and maintain Software Requirement Specification.
- PO-4 Ability to work independently as well as in team in multidisciplinary projects.
- PO-5 Exhibit professional and ethical behaviour.
- PO-6 Ability to design a system, component, or process to meet desired needs within realistic constraints such as economical, environmental, social, political, safety, manufacturability, and sustainability.
- PO-7 To acquire effective communication skills such as:
  - a. Speaking and Listening
  - b. Reading and Writing
  - c. Interpret and Prepare Visual Cues
- PO-8 Demonstrate the impact of software engineering solutions in global, economical, environmental and social contexts.

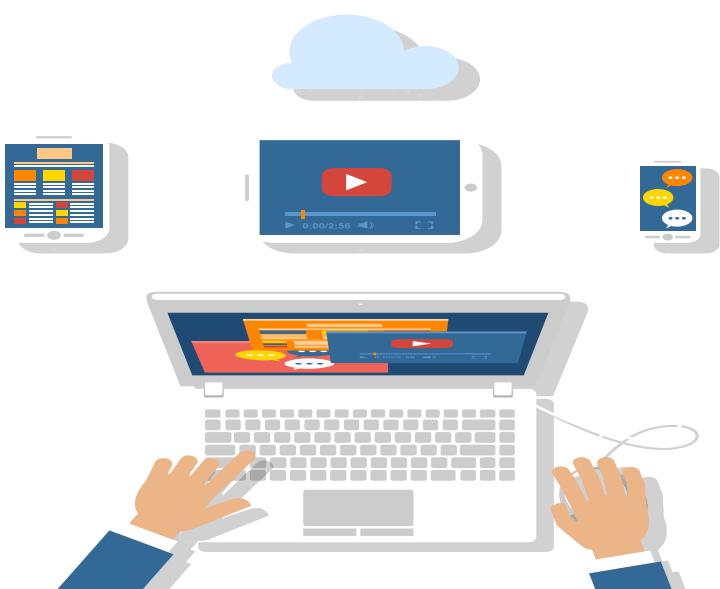
## Program Details

<b>Degree Offered</b>	Master of Computer Application (Affiliated to Assam Science and Technology University )
<b>Duration</b>	3 years (6 semesters)
<b>Intake</b>	30 Lateral entry in the 3rd semester as per AICTE norms

## MCA Programme Structure

1. The total course package for a MCA Programme will typically consist of the following components.

- (a) Programme Core Courses  $P_c \geq 80$  Credits
- (b) Elective Courses  $E_{le} \geq 20$  Credits
- (c) Major Project  $M_P \geq 20$  Credits
- (d) Laboratory Courses  $\geq 25$  Credits



## Course Structure



<b>First Semester (Credit: 25)</b>	<b>Second Semester (Credit: 25)</b>
Introductory Programming (IP)	Data and File Structure (DFS)
Digital Systems (DS)	Computer Architecture and Organization (CAO)
Theory of Computer Science(TCS)	Computer based optimization techniques (CBOT)
Accounting and financial management (AFM)	Graph Theory (GT)
Computer oriented numerical methods(CONM)	Probability and Statistics (PS)
Laboratory-I (LAB-1)	Laboratory-II (LAB-2)

<b>Third Semester (Credit: 25)</b>	<b>Fourth Semester (Credit: 25)</b>
System Software (SS)	Operating Systems (OS)
Database Management Systems -I(DBMS)	Software Engineering(SE)
Management Information System(MIS)	Database Management Systems -II(DBMS)
Object Oriented Programming and Design (OOPD)	Computer Network (CN)
Computer Graphics & Multimedia(CGM)	Design and Analysis of Algorithms (DAA)
Laboratory-III (LAB-3)	Laboratory-IV (LAB-4)

<b>Fifth Semester (Credit: 25)</b>	<b>Sixth Semester (Credit: 25)</b>
Data Warehousing and Data Mining(DWDM)	System Development Project (Internal Evaluation)
Web Technology (WT)	System Development Project (External Evaluation)
Artificial Intelligence(AI)	
Elective-I	

\*L:Lecture, T: Tutorial, P:Practical

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## Elective Subjects:



<b>Elective Subjects:</b>	
<b>Elective -I(CA132504)</b>	<b>Elective-II (CA132505)</b>
a) Microprocessor and Embedded Design(MED)	a)Cryptography and Network Security (CNS)
b) Distributed Systems(DS)	b)Information Storage and Retrieval (ISR)
c) Expert Systems(ES)	c)Multimedia Systems(MS)
d) Image Processing(IP)	d)Simulation and Modeling(SM)
e) Biologically Implied Computing(BIC)	e)Remote Sensing and GIS(RSG)
f) Programming Language and Paradigms(PLP)	f)Mobile Computing(MC)

## Degree Requirements



The requirements for a student of MCA degree program are as follows:

- 1.Credit Requirements: Minimum Earned Credit Requirements for the award of Degree is 140to 150 with a CGPA of not less than 4.5. The each semester has been designed uniformly for 28 credits. This may be modified depending on the requirement in each semester.
- 2.The minimum duration for a student for complying with the Degree requirement is THREE academic years from the date of first registration for his/her first semester and TWO academic years from the date of first registration for his/her Lateral entry admissions.
- 3.The maximum duration for a student for complying with the Degree requirement is SIX academic years from the date of first registration for his/her first semester and FIVE academic years from the date of first registration for his/her Lateral entry admissions.

## Faculty Members




**Mr. Mukta Ranjan Singha, B.Sc (H), MCA , (PhD Thesis Submitted)**

Associate Professor, Dean (Academics) & HOD

- Mr. Pranjal Das Assistant Professor, B.Sc (H), MCA
- Mr. Arnab Kumar Das, Assistant Professor, B.Sc (H), MCA, M Tech (IT),Pursuing PhD
- Mr. Jeetumoni Barman, Assistant Professor, B.Sc (H), MCA
- Mr. Rajarshi Paul,Assistant Professor and System Analyst, BCA, MCA,M Tech (IT)
- Mr. Arindom Ain, Assistant Professor, B.Sc (H),MCA

## Adjunct Faculty Members

- Dr. Priyanka P Baruah Assistant Professor, (Dept of Mathematics) , M.Sc , PhD.
- Ms SanchitaChetia Assistant Professor, (Dept of Mathematics) MSc, pursuing PhD

## Facilities of the Department

The department of Computer Application is enriched with the following facilities:-

### (a)Laboratory Facilities

At present the department has six Laboratories each having high end Computers running on wide variety of operating system including Linux, Windows Vista/7/8. All the machines are equipped with latest Intel(R) Core (TM)2 Duo processor having memory up to 2.00 GB and is connected to the online UPS. The laboratory is also equipped with an high speed IBM server with multicore computing facility. The laboratory is providing client-server computing facility to all the 90 computers with the IBM Server. The server, workstations and the PC terminals are connected to the campus wide gigabit compatible LAN with access to the Internet. The IBM server is configured with latest software packages to assist in software development. The laboratory is equipped with up-to-date DBMS packages, graphics and animation packages, multimedia authoring packages, GIS packages & browsers, Skylab in addition to the various state-of-the art compilers and programming environments, and office automation software. Moreover Workstation computers have mobile application development facilities.

The student of the Department can also avail the facilities of other high end Engineering laboratory to carry out their projects and experiments.

**Following are the list of different Laboratories.**

Name of the laboratory	Tools and Software used
PROGRAMMING LAB	Turbo C, Dev C, GCC, Java, C++
RDBMS LAB	Oracle 11g on IBM server and Oracle 11 client on client computers, My SQL,Sql server
PROJECT LAB	Dreamweaver, Komodo Edit, HTML 5, CSS, Eclipse, Android ADT, Java ME, Delvic JVM, , Apache Server, IIS, Glassfish, Tomcat etc on IBM server and Eclipse, Net beans etc on client side with Filezilla as FTP client.
NETWORKING LAB	Interconnecting devices(L2,L3 Swich,Cisco Router)
MOBILE APPLICATION LAB	Android Studio
R & D LAB	Matlab, Wireshark, WEKA, Hadoop Cluster, Raspberry Pi, Arduino, Spider, SWI Prolog, GC Prolog

### (b) Internet facilities

Each Computer in the laboratory is connected to the Institute Wi-Fi as well as Cable connectionedComputer networks that provides high speed Internet facilities.

### (c) Library

Students of this department have full access to the central Library of the Insititute.The Library is stocked

with an adequate number of latest edition text books & references, Journals & magazines. At present the Library has more than 30000 volumes of books and E-library facility. The functioning of library is computerized with integrated library management software.

#### **(d) Mentoring System**

The Institute has adopted the policy of mentoring through which each and every student is under the observation of their respective mentors which guide them in their academic as well as personal problems and grievances.

#### **(e) NPTEL's E Learning facility**

The Institute has also has the facility of free online courseware through NPTEL's Classle which faculty member and student can avail the countrywide classroom facilities for the enhancement of their knowledge and quality of engineering education.

### **Short term Courses conducted**

SI No	Co-ordinator	Course/Pro-gramme Title	Sponsoring body	Date/Year
01	Mukta Ranjan Singha	Operation Re-search with Appli-cation to Computer Science	All India Council for Technical Educa-tion	May 7-19, 2012

### **Recent Activities organized by the department**

1. Inter College Technical Quiz Competition “DIGIFACT”
2. National Workshop on Mobile Application Development
3. Industrial visit to Pratidin Time(24 X 7 News Channel),Guwahati

### **Research and Publications (Published / Accepted)**

- (a) Paper Published : 13
- (b) Paper Conference: 01



## Results



The students of the department have shown outstanding result in the university exam and brought laurels to the college. Four batches have passed out the course and most of them are working in various Government and Non-Government Organizations. Following is the year wise result of the department till date.

Seri- al No	Batch	No of students Appeared	No of Stu- dents Passed	Pass Percentage	Rank in University Exam
1	2009-2010	38	35	92%	1st , 3rd , 7th ,9th, 10th
2	2010-2011	28	24	85%	1st, 2nd , 5th, 7th, 8th, 10th
3	2011-2012	44	39	88%	2nd ,3rd ,4th ,5th ,9th
4	2012-2013	28	26	93%	11th ,15th,18th
5	2013-2014	25	19	76%	1st ,2nd 3rd ,4th,5th

## Training and Placement



The Department has a full-fledged training and placement cell which provide all possible assistance to its students in their efforts to find employment. It assists in arranging pre-placement talks, written tests, group discussions, personal interviews, etc. Off-campus interviews are also arranged regularly. The training and placement cell also invites professionals from industry, software firms, Govt organization to interact with students in order to identify the emerging opportunities.

## Special Training

The Department has started a training programmenamely” **Linux Server** Administration which is one of the most sought after training program in today’s software industry.

Moreover Finishing school classes are also held regularly to fine tune the skill of students to make them employable.

## Few Major Recruiters of our department are



SI No	Name of the Company
1	Incredible Info soft software PvtLtd,Guwahati
2	Zaloni Tech India Pvt Ltd,Guwahati
3	Wipro Technologies
4	Sling Infocom,Kolkatta
5	Genpact
6	L & T Infotech

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Some of the organizations where alumni of our department are currently working

SI No	Name of the Company
1	Siemens India,Kolkata
2	Oracle India Pvt Ltd, Bangalore
3	Cotton college State University,Guwahati
4	Lalit Chandra Bharali College, Guwahati
5	Pragjyotish College, Guwahati
6	Zantrik IT Solution,Guwahati
7	NEIST,Tezpur
8	WebX, Guwahati
9	NIC,Guwahati
10	Jawahar Navodaya Vidyalaya
11	Rashtriya Madhyamik Siksha Abhijan (RMSA), Assam

## Recent Activities organized by the department



**Mobile Application Development workshop**



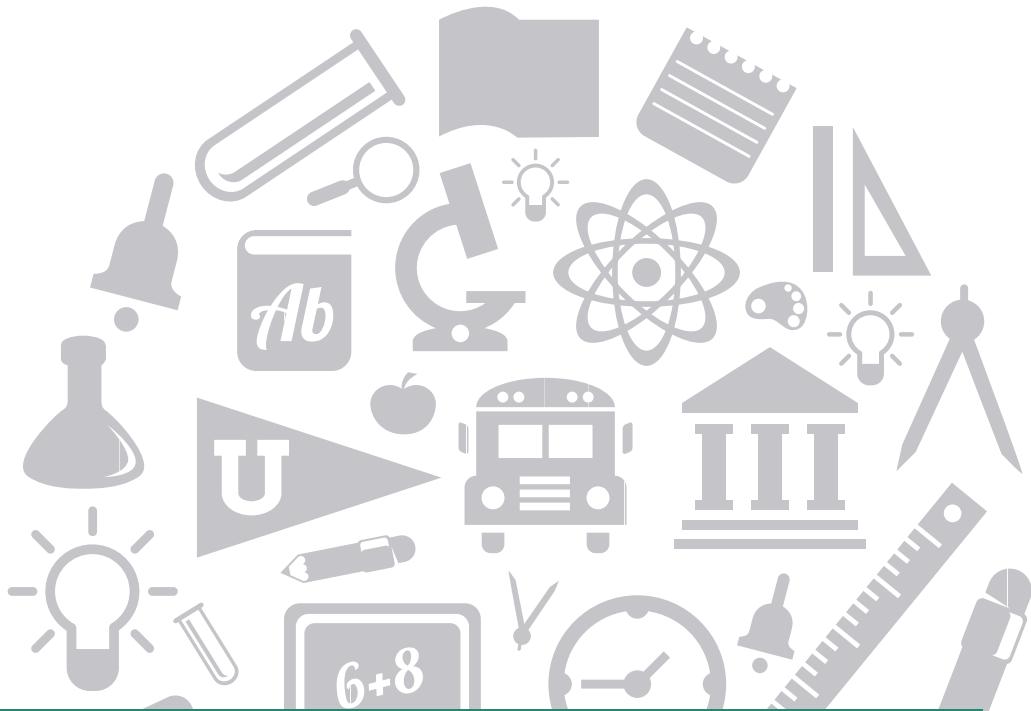
**Digifact -An Inter college Technical Quiz Competition**



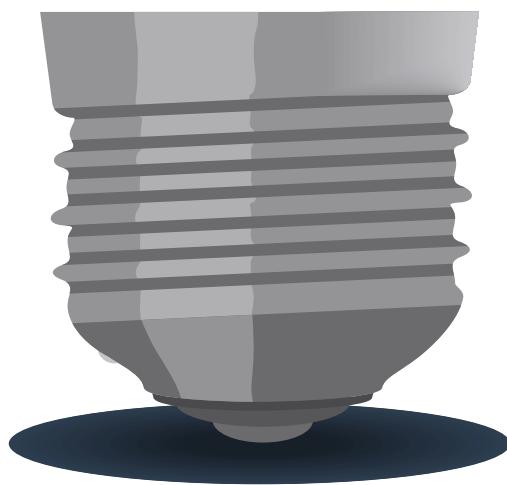
**Industrial Visit to  
Pratidin Time, Guwahati**



**Participants of the Smart India Hackathon 2017  
( A 36 hours Software development Competition)  
Organized by  
AICTE**



# ACADEMIC EVALUATION PROCEDURES



## University Evaluation

The Evaluation Procedure of the Institute is in accordance with the University Examination rules and regulations. The Evaluation of the examination is mainly based on the following attributes:- (a) Continuous Evaluation (CE) (b) Mid Term Examination / Skill Test (MTE/ST) (c) End Term Examination(ESE) . Out of these three attributes, Continuous Evaluation has been taken as Internal Evaluation whereas, Mid Term Examination and the End Semester Examination is taken as External Evaluation. The present weightage is as follows:

(a) Continuous Evaluation (CE)	-	20%
(b) Mid Term Examination / Skill Test (MTE/ST)	-	20%
(c) End Term Examination(ESE)	-	60%

## Institutes Internal Evaluations

The Institute has its internal evaluation procedures in co-ordination with the University Examination Regulations. It also follows the Assessment Methods as followed by National Board of Accreditation. The Internal Evaluation of the courses done with the Attendance, Unit Tests, Viva, Practical tests, quiz etc.

### NBA Assessment Procedure:

**Course Outcome (CO):** The grass root evaluation of a course is done by the attainment level of the pre-determined course outcome of the subjects. The tools for assessing course outcome are Unit Tests, Viva, Practical tests, quiz etc and are evaluated by the subject teacher within the timeframe of the course period.

**Programme Outcome (PO):** The Program Outcome of the each program is calculated on the basis of different factors. Out of these factors, the Course outcome of the subjects taken together is also an important component. The attainment level of Program outcome of a batch of students is done at the department level and analyzed for further improvement.

**Program Educational Objectives (PEOs):** The Program Educational Objectives of a particular programme has been computed on the basis of different factors like, Course outcome, Alumni Feedback, Industry / Recruiters feedback, Faculty feedback, Placement Records and other factors which directly and indirectly affect the total educational performance system.

**Vision and Mission of the Department:** The attainment level of Program outcome and their mapping with Program Educational Objectives leads to the attainment of the Vision and Mission of the Institute as a whole.

**Vision and Mission of the Institute:** The vision and mission of the Institute is the summation of attainment level of Vision and Mission of the Programmes as a whole.

# CENTRE FOR CAREER DEVELOPMENT



# TRAINING AND PLACEMENT CELL

The Training and Placement Cell plays a pivotal role in building an interface between academia and corporate houses by organizing various seminars, pre-placement talks, work-shops, training programs, industrial visits, summer placements and campus placements.

It maintains a close liaison with the Corporate Houses and other employers in order to facilitate the placement of the students. Moreover, the Cell tries to arrange interaction of the students with professionals from Industry regularly to provide them with first-hand knowledge of the ever-changing technology.

The Training and Placement Cell of Girijananda Chowdhury Institute of Management and Technology (GIMT) has the requisite state-of-the-art infrastructure to conduct various programs such as campus drives, seminars, workshops and training sessions.

## Facilities:

- Air-conditioned auditorium for conducting pre-placement talks and seminars with LCD projector and PA systems
- Well furnished rooms for conducting group discussions and interviews
- Computer lab available with large number of systems interconnected by LAN and high speed internet for online tests
- A well-maintained and hygienic cafeteria is available for recreation of guests and students.

## Training:

The Training and Placement Cell plays a vital role in providing various training programs both in-house and out-house, such as summer placement, workshops, seminars, industry visit, personality development programs, to imbibe in the students and make them acquaintance with the corporate culture and the practical implication of the various theoretical subjects.

## The list of the companies where students have done their summer training (partial list):

1	Airport Authority of India	14	Brahmaputra Iron And Steel Company Pvt. Ltd.
2	Ashok Leyland	15	Brahmaputra Valley Fertilizer Corporation Limited
3	Assam Electronics Development Corporation Limited(Amtron)	16	Ceat Tyres Limited
4	Assam Financial Corporation	17	Cement Manufacturing Co. Ltd (Star Cement)
5	Assam Gas Company Limited	18	Centre For Electronics Test Engineering(CETE)
6	Assam Gramin Vikash Bank	19	Cetpa Infotech Private Limited
7	Assam State Electricity Board	20	Dishnet Wirless Limited(Aircel)
8	Assam State Transport Corporation	21	Doordarshan Kendra,Guwahati
9	Automation And Control System	22	DS Group
10	Bharat Sanchar Nigam Limited	23	Emami Ltd
11	Bharti Airtel Limited		
12	Bharti Infratel Limited		
13	Bohniman Systems		

24	Exim Bank	46	North Eastern Development Finance Corporation Limited(Nedfi)
25	GNRC Hospital	48	Numaligarh Refinery Limited
26	Goodyear	49	Oil And Natural Gas Corporation Limited
27	Greenply Industries Limited	50	Oil India Limited
28	Gujarat Co-Operative Milk Marketing Federation Limited	51	Pepsico India Holdings Private Limited
29	Gvk Emergency Management and Research Institute (Gvk Emri)	52	Reliance Communication
30	HDFC Bank	53	Saffron E- Services
31	HDFC Standard Life Insurance	54	Siemens, Kolkata
32	Hero Honda Motors Limited	55	Software Technology Park Of India
33	Hindustan Coca-Cola Beverage Pvt. Ltd	56	Sony India Pvt Ltd
34	Hindustan Paper Corporation Limited	57	Speechware Net (I) Pvt. Ltd
35	Hindustan Petroleum Corporation Limited	58	SRD Nutrients Private Limited
36	IDBI Bank	59	State Bank Of India
37	IFB Industries Limited	60	Stock Holding Corporation Of India Limited
38	Indian Institute Of Technology, Guwahati	61	Software Technology Park of India
39	Indian Oil Corporation Limited	62	Sunrise Biscuit Company Pvt.Ltd.
40	International Hospital	63	Tezpur University
41	ITC Limited	64	Uco Bank
42	K.D. Group Of Industries	65	Videocon D2h
43	NHPC Limited	66	VIP Industries Ltd.
44	Nort East Frontier Railway	67	Zaloni Technologies India Private Limited
45	Nort Eastern Electric Power Corporation Limited	68	Zaloni Technologies India Private Limited

## Placement:

The Training and Placement Cell handles all aspects of campus placements. The office is well equipped with excellent infrastructure to support every stage of the placement process.

Earnest efforts are made to attract the best of the recruiters to pick up our students both via on-campus and off-campus recruitment process. The target, obviously, is to have all our students suitably placed before their final semester examinations.

The Training and Placement Officer handle the placement policies and other related activities in consultation with the Faculty Coordinators and Student Representatives. The process of contacting companies for recruitment is handled by the Placement Cell, which consists of the TPO, Faculty Coordinators and nominated students from the department.

## PLACEMENT PROCEDURE

- Invitations are sent to the companies by the Training and Placement Officer (TPO)
- On receiving the eligibility criteria from a company/organization, a list of interested students satisfying the eligibility criteria of the company concerned is prepared and the requisite data forwarded to the company concerned.

- A suitable date for the company's visit is worked out.
- After confirmation, the placement cell arranges a Pre-Placement Talk.
- The company conducts its selection and shortlists students for the interview.
- The concerned company comes for campus interview and the result is announced usually on the same day.

**GIMT has achieved significant milestone as its seven batches of students are well accepted by the various industrial as well as the corporate houses.**

## Recruiters List:

Absolute Surveyors Private Limited	Genpact
Ahura Mazda Metal Forming and Finishing	Getit Infoservices Pvt. Limited
Akzonobel India Limited	Godrej and Boyce Manufacturing Company Limited
Alembic	Greenply Industries Ltd.(Greenlam)
Amrit Cement Industries Limited	HDFC Bank
Arden Telecom	Horizon Telecom
Arihant Trading Company	I Serve Communication Private Limited
Assam Power Generation Corporation Limited	IBM India Pvt. Ltd.
Autometers Alliance Limited	Incredible Infosoft Solutions India Pvt. Limited
Axis Bank	India First
Bharti Airtel Limited	International Hospital
BIOCON	Integrated Wireless Solutions Pvt. Ltd
BioMerieux India Pvt. Ltd.	J.U.D. Cements Ltd
Bohniman Systems Private Limited	Janalakshmi Financial Services
Bosch Limited	Jenson and Nicholson
Brigisha Educations	Joyshree Powerol
Calcom Cement India Limited	Kurlon Enterprise Limited
CapitalVia Global Research Limited	Larsen and Toubro Infotech Limited
Ceasefire Industries Limited	Lupin Limited
Cement Manufacturing Company Limited(Star Cement)	Maithan Alloys
Concierge Technologies	Meghmallar Estates and Services Private Limited
Cummins India Limited	Mitcon Consultancy and Engg. Services Limited
Didactic Systems India Pvt. Ltd	Mphasis Limited-
Ellmech Institute of Technology (P) Limited	Mukand Systems and Marketing Pvt. Limited
Emami Limited	Onquest Laboratories Limited
Ericsson	Paramount Tea Marketing
Everest Industries Limited	Pearson Education
Exiliant Technology Pvt. Ltd.	PepsiCo India Holdings Private Limited
Assam Power Generation Corporation Limited	PHI Learning Private Limited (Prentice Hall)
Fin-Advisor Consulting Pvt. Ltd	Power Networks Engineers Private Limited
Force Motors Limited	Pradan



# Few Quotations from Recruiters:

“ This has been my first trip to the NE and I wanted to better understand the kind of higher education program that existed here. I was pleasantly surprised to see the progress that GIMT has made in its early stages of its development. I wish the faculty and students all the best! ”

- COO, Cummins India Limited.

“ Overall, it was a successful & good event. Quality of candidates were good. Nice hospitality found here. Hope to come back again for 2018 drive ”

- HR, Amazon.

“ GIMT has developed itself into a great Institute. I believe that would be able to deliver more in the future. ”

- DGM HR, Varun Beverages limited.

“ My first visit to GIMT. Very energetic students. More exposure to practical situation will enable to enhance their skills. Grooming on soft skill will also help them to adopt any challenges. ”

- HR, Vodafone Spacetel Limited

“ The college appears to be growing at a faster rate. Kudos and well wishes. Hope to see the college reaching heights in coming years. Well coordinated efforts and support provided by the staff. ”

- Indian Army

Started with 22 offers this year and now the expectation is definitely high in terms of number with coming years. Great hospitality from Management, T and P Department and Coordinators.

- HR, Genpact

Good infrastructure, very nice co-ordination, support from students and staff. Training and placement department – all the faculties are extremely good and submissive.

- HR, IBM India

Excellent support with feel at home environment. Looking forward to recruit more students from GIMT

- HR, DS Group

Excellent infra-structure; Cooperative faculty, Good learning atmosphere. The institute has immense potential to offer

- VP, Shriram Transport Finance Co Ltd.

Excellent hospitality. Well coordinated from T and P Cell

- HR, Zaloni Technologies.



### **Training and Placement Officer**

Sourokh Mazinder Barua

Contact +91 9864348588, +91 9854075379

Email: [training\\_placement@gimt-guwahati.ac.in](mailto:training_placement@gimt-guwahati.ac.in),  
[trainingplacement.gimt@gmail.com](mailto:trainingplacement.gimt@gmail.com)

# FINISHING SCHOOL

The Finishing School is a part of the GIMT learning experience, which operates with a steadfast commitment towards increasing the employability of our graduates. It acts as that bridge students need to cross to step from College to Industry. The programme is tailored to make our fresh graduates INDUSTRY-READY by providing them a balanced set of technical skills, communication and interpersonal skills, industry exposure and a positive attitude to work and life.

## Facilities:

- A dedicated conference room modeled Finishing School Classroom with audio-visual facilities to conduct aptitude test and communication and soft skills classes
- Well-equipped computer lab with 50 computers to conduct technical courses

## Activities of the School:

- The Finishing School conducts an array of Technical training Certificate courses offered by IIT Bombay Spoken Tutorial in association with Ministry of Human Resource Development (MHRD) as part of its Mission for Education - Information and Communications Technology (ICT). These courses are selected to cater to specific and latest Industry needs.
- Regular classes in communication skills and soft skills. Sessions are provided on CV and resume writing, group discussion sessions, interview performance and behaviour, communication and presentation skills, personality development, time management skills, negotiation skills, interpersonal and team management etc.
- Aptitude Test classes on quantitative aptitude, logical reasoning and English aptitude which give students required training to be able to get placed during campus interviews
- Guest Lectures and student workshops by Industry professionals. This becomes a huge opportunity for students to have a workplace orientation and learn about real time projects and workplace culture, ethics and related experiences.

## Certification:

- Technical Training courses certified by IIT Bombay Spoken Tutorials
- One year certificate course in Communications and Soft Skills development
- Employability Enhancement Training Programme (EETP) under AICTE-ICT Academy MoU

## Joint coordinators:

- Ms. Ritushree Dutta, Assistant Professor, Department of Applied Electronics and Instrumentation
- Ms. Chayashree Patgiri, Assistant Professor, Department of Applied Electronics and Instrumentation

# ENTREPRENEURSHIP DEVELOPMENT CELL

The Institute has set up an Entrepreneurship Development Cell, funded by the AICTE New Delhi.

The cell organized a three day Entrepreneurship Awareness Programme for Students (EAPS) in the month of January 2010 in association with Indian Institute of Entrepreneurship (IIE), Guwahati with participants from both the Engineering and Management disciplines. The cell conducted a Business Skill Development Programme for the students from February 4, 2011 to March 4, 2011 in collaboration with MSME-DI, Guwahati. Expert talks on entrepreneurship were also being conducted by the cell where entrepreneurs from diverse fields are addressing the students and providing them with valuable inputs. In our endeavor to undertake activities in the line of Entrepreneurship development for the benefit of the students, a three day Entrepreneurship Awareness Programme (EAP) was conducted in association with

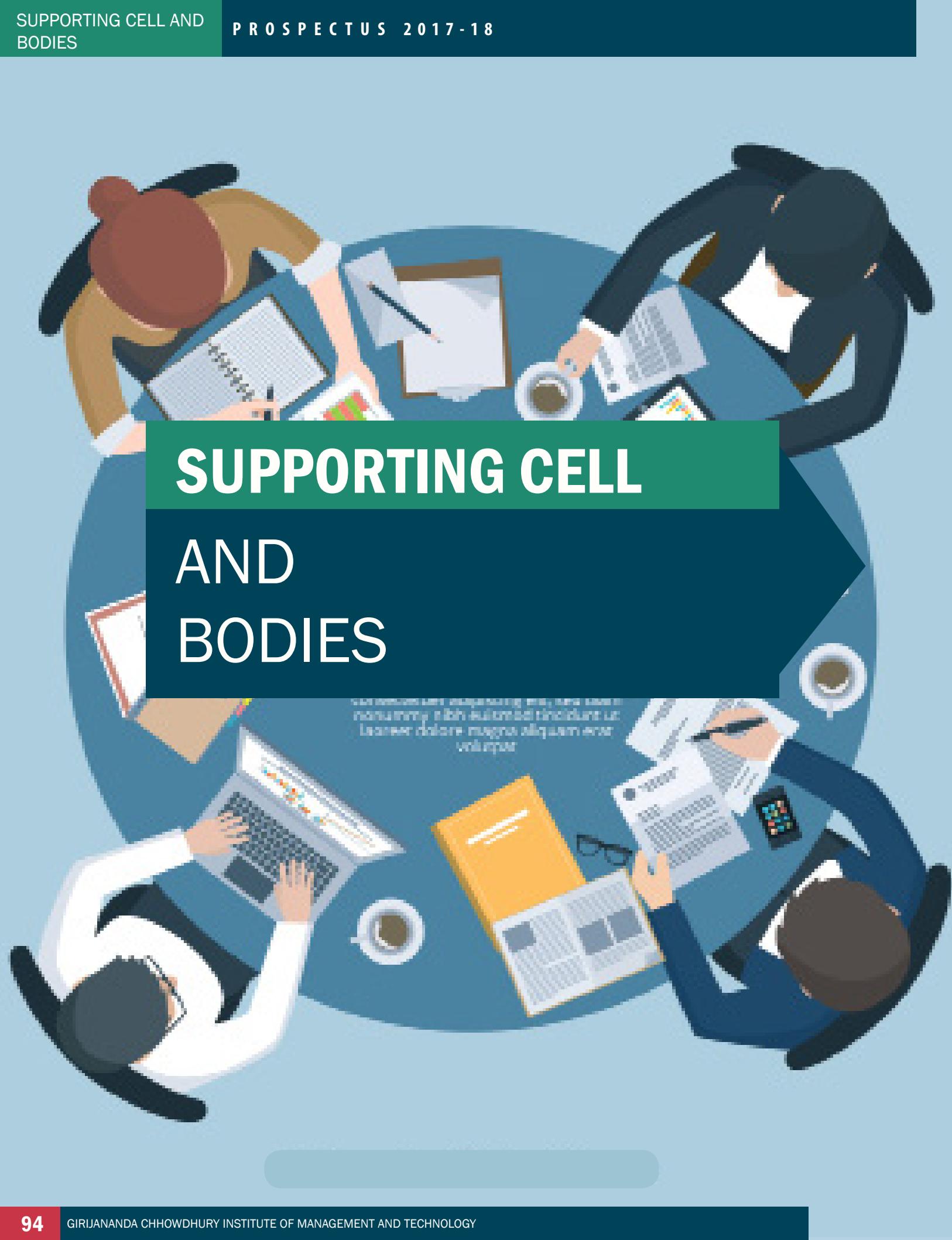
Indian Institute of Entrepreneurship (IIE), Guwahati from 5th – 7th February 2013 at GIMT.



In the subsequent phase, a Skill Development Programme (SDP) on Basic AutoCAD of 24 hours duration was conducted for the students. Continuing with this, a Skill Development Programme (SDP) on Advance AutoCAD was organized for the students in February 2014. The Cell also organized a talk titled 'Accelerate the Startup Talk' in association with Millionminds on February 3, 2017 at GIMT campus. The speakers for the event were Mr. Sanjeev Sarma, Founder Director & CEO, Webx Technologies and Mr Pankaj Gogoi, Startup Advisor & Technology Analyst. Besides these activities, the cell organized a study Tour to Guwahati Biotech Park for the students to gather knowledge about an Incubation centre.

The AICTE funded project concluded on 31st March 2014. Since then all entrepreneurial activities of the cell have been funded from the resources of GIMT Guwahati. The EDC is headed by Prof. P.K. Dutta, Principal and manned by Shri Rajdeep Deb, Assistant Professor of the Department of Business Administration as Coordinator.





# SUPPORTING CELL AND BODIES

Etiam interdum etiam ut neque semper enim. Nam id sit  
modestia. Utibz. Aliquam sed nunc. Quod ut  
laetare dolore magna aliquam et  
voluptate.

# EXAMINATION CELL



The Examination Cell of GIMT has been set up for smooth functioning of Institutional and University Evaluation processes including Mid Semester Examination, End Semester Examinations, Practical Examination, Thesis/Dissertation evaluations. The Cell is administered by

- (a) Principal as Officer-in Charge
- (b) Two Examination Co-ordinators selected from senior faculty members.

### **The Primary objectives of the Examination cell are to:-**

- (a) Keep all the communications with affiliating University and submit necessary documents required by the University authority.
- (b) Submit Internal Evaluation marks, such as Mid Term Examination, Continuous Evaluation, Skill Test Marks together with Attendance Information to the affiliating University.
- (c) Notify Mid Term examination, End Semester Practical Examinations schedules in discussion with the Departments.
- (d) Conduct the University Examination such as Mid Term Exam, End Term Exam, and any Special Exam as notified by the affiliating University.
- (e) Collect and distribute the results and marksheets to the Department or to the students.
- (f) Forward the students' examination related application to the University for consideration.

### **Students admitted to various programmes can avail the following facilities from Examination Cell:-**

- (a) Collect marksheets from Examination section after the declaration of results and receiving of the mark sheets from University.
- (b) Write an Application such as correction of mark sheets, Re-Scrutiny / Re Evaluation of Answer Scripts to the university through the Principal for necessary action.
- (c) Guardians of students can also keep touch with the Examination Cell for the Progress of his/her ward/s in different Examinations Conducted by the Institute or Affiliating University.

Students Admitted to different Programmes are informed to go through the Examination Rules and Regulations, Promotion Rules in order to make them understandable all the matters regarding Examinations.

Contact Persons :

- (a)Officer in Charge :** Prof. Sushata Kumar Dutta  
Principal, GIMT, Guwahati
- (b)Co-ordinator-I :** Dr. Kajal Dutta  
Assistant Professor, Department of Chemistry
- (c)Co-ordinator-II :** Mr. Agnimitra Borah,  
Assistant Professor, Department of ECE.

# INTERNAL QUALITY ASSURANCE CELL (IQAC)

(as per UGC Guidelines)

The Internal Quality Assurance Cell (IQAC) is the academic body responsible for making policies to maintain the quality and standard of education as per the norms of affiliating and approved bodies.

## Objectives

- To build up an organism for cognizant, consistent and catalytic action to develop the academic and administrative performance of the institution.
- To encourage measures for institutional performance towards quality improvement through internalization of excellence culture and institutionalization of best practices.

## Strategies

- a) Ensuring appropriate, proficient and progressive concert of academic, organizational and financial responsibilities;
- b) To built the environment for the excellence of academic and research programmes;
- c) Practical access to and affordability of academic programmes for various sections of society;
- d) Optimization and integration of modern methods of teaching and learning;
- e) The integrity and reliability on evaluation procedures;
- f) Ensuring the adequacy, preservation and proper share of support structure and services;
- g) Sharing of research findings and networking with other institutions in India and abroad.

## Functions

- a) Growth and application of quality parameters for various academic and administrative activities of the institution including UG, PG, research Programmes.
- b) Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process as per norms of accredited bodies.
- c) collection for feedback response from students, parents and other stakeholders on quality-related institutional processes;
- d) Dissemination of information on various quality parameters of higher education;
- e) Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles;
- f) Documentation of the various programmes/activities leading to quality improvement;
- g) Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices;
- h) Development and maintenance of institutional database through MIS for the purpose of maintaining / enhancing the institutional quality;
- i) Development of Quality Culture in the institution;
- j) Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC.

**The Cell is constituted with:****Dr. Th Shanta Kumar**

Coordinator

Associate Prof &amp; HOD

Department of Computer Science and Engineering

<b>SI</b>	<b>Name</b>	<b>Designation</b>	<b>Membership</b>
1	Dr. S.K. Dutta	Principal, GIMT	Chairman
2	Mr. Ratul Das	President, SSA	Member
3	Ms. S. Chowdhury	Member, SSA	Member
4	Mr. M.R.Singha	Dean, Academic	Member
5	Capt. I.P. Sharma	Dean, Admin	Member
6	Prof. P.K. Goswami	Sr. Professor, EE	Member
7	Prof. P.K. Bordoloi	Sr. Professor, AEI	Member
8	Prof. Dilip Sharma	HOD, Maths	Member
9	Dr. Buljiti Boraguhain	Dean, Student Affairs	Member
10	Ms. Gitika Talukdar	Asstt. Professor, Dept. BA	Member
11	Mr. Pranab Lasker	Chief Account Officer	Member
12	Ms. Junumoni Das	Personnel Officer	Member
13	Mr. Ranjit Kumar Baruah	Head-Eng. Support (A Tata Enterprise)	Member (Industries)
14	Bhargav Bhattacharjee	Partner, B&B Associates	Member (Alumni)

# RESEARCH & CONSULTANCY CELL

GIMT, the first private engineering institute in Assam started with a vision to provide quality technical education in North-East India. Realizing the immense importance of research for promoting innovative ideas in the technical field, GIMT thrives to be on the forefront of research and consultancy activities.

Research and Consultancy Cell promotes, coordinates, records and regulates all sponsored, collaborative research projects and consultancy works in the Institute.

## Vision



To imbibe the culture of research and consultancy among faculty and students and disseminate knowledge to the society in emerging and challenging areas of science, engineering, management and humanities.

## Mission



- To create awareness, opportunities and a conducive atmosphere in research among the students and faculty members.
- To create good infrastructure for facilitating research and developing research culture.
- To motivate the faculty and students to take up research projects and improve their knowledge and skills.
- To assist faculty members in acquiring funds from external agencies.
- To develop strategies to foster research collaborations with external agencies/ institutes.
- To encourage faculty to undertake industrial consultancy work.
- To encourage faculty and students to publish technical papers in refereed national and International Journals/Conferences.

## Members



### **Prof. Sushanta Kumar Dutta**

Principal, GIMT  
Chairman

### **Dr. Ajanta Deka**

HoD (i/c), Department of Physics  
In charge

## Advisory Members



Sl no	Names	Designation	Department
1	Prof. A. Nath	Sr. Professor	Department of Electronics and Communications Engineering
2	Prof. P. K. Bordoloi	Sr. Professor	Department of Applied Electronics and Instrumentation
3	Prof. P. K. Brahma	Visiting Professor	Department of Computer Science Engineering
4	Prof. P. K. Goswami	Sr. Professor	Department of Electrical Engineering
5	Prof. P. K. Dutta	Sr. Professor	Department of Mechanical Engineering

## Executive members



Sl no	Names	Designation	Department
1	Dr. K. Gohain	HoD	Department of Civil Engineering
2	Dr. Th. Shanta Kumar	HoD	Department of Computer Science Engineering
3	Dr. Minakshi Gogoi	Asst. Professor	Department of Computer Science Engineering
4	Dr. Sandip Bordoloi	HoD Incharge, AEI	Department of Applied Electronics and Instrumentation
5	Dr. Bhaskor Jyoti Bora	HoD Incharge	Department of Mechanical Engineering

# ADMISSION PROCEDURE

## B.TECH PROGRAMME

### 1. Eligibility Criteria:

(a) Admission into 1st Semester of any of the 4 Year B.Tech Programme:

To seek entry into a 4 year B.Tech Programme, a candidate

(i) Must have passed the Higher Secondary examination of the AHSEC or any equivalent examination with English, Physics, Chemistry and Mathematics as the subjects, in one seating. Must have secured at least 45% marks in aggregate in Physics, Chemistry and Mathematics (40% for SC & ST candidates)

(ii) Must not be more than 21 years of age or must not be less than 17 years of age on 1st August of the year in which the admission is sought. Upper age limit is relaxable to 22 years in case of B.Sc. passed candidates. For SC/ST candidate upper age limit may be relaxed by 3 years.

(iii) Must be mentally and physically fit and must possess a good moral character.

(b) Admission of Diploma Holders into 2nd Year (3rd Semester) of Any of the 4 Year B.Tech Programme: To seek lateral admission at the 3rd semester level, a candidate

(i) Must have passed the Diploma in engineering in the relevant branch with a minimum of 50% marks in aggregate. Candidates fulfilling these conditions would only be eligible for appearing in the entrance test meant for selection of Diploma holders for lateral entry to degree programmes. The selection of candidates will be based on merit of the entrance test.

(ii) Must be mentally and physically fit and must possess a good moral character.

**Last date of submission of GIMT application form for lateral admission is 5th July 2017. Date of admission test/ admission will be 8th July 2017.**

**2. Intake Capacity:** The intake capacity in different branches for B.Tech Programme for the year 2017-18 is as follow:

Sl.No	Programme	Total intake
1	B. Tech. in Applied Electronics and Instrumentation Engineering	30
2	B. Tech. in Computer Science and Engineering	90
3	B. Tech. in Civil Engineering	60
4	B. Tech. in Electrical Engineering	60
5	B. Tech. in Electronics and Communications Engineering	120
6	B. Tech. in Mechanical Engineering	120

(a) Admission will be on the basis of

- (i) Common Entrance Examination (CEE), Assam score and
- (ii) JEE (Main) score

(b) Reservation for SC, ST (P), ST (H), OBC and MOBC will be as per Govt. of Assam rules.

### **3.Counseling for Admission:**

**(a)For CEE Seats-Date, time & Venue for counseling and admission of CEE seats will be notified by the Govt. of Assam/ the agency conducting CEE as authorized by the Govt. of Assam.**

**(b)For JEE (Main) Seats** - Counseling for JEE (Main) seats will be held at GIMT premises at Azara **on 4 July 2017**. No further notice for counseling of JEE (Main) seats will be issued.

**4.Allotment of Branch:** Allotment of branch is subject to availability of seats. the candidate selected for admission will be offered a branch of his/her choice on the basis of merit in CEE/JEE (Main).Branch transfer in first/second semester will normally not be permitted unless there are vacancies in any of the

## **M.TECH PROGRAMME**

### **1.Eligibility Criteria (According to AICTE and ASTU norms):**

To seek entry into the M. Tech. Programme, a candidate

(a) Must have passed the Bachelor degree (B.E./B.Tech.) or equivalent in Engineering or relevant field. Must have secured at least 50% marks (45% for SC & ST candidates) at the qualifying examination.

**2.Intake Capacity:** The intake capacity for various M. Tech Courses conducted at GIMT Guwahati are :

SI.No	Programme	Total intake
1	M. Tech. in Computer Science and Engineering	18
2	M. Tech. in Electronics and Communications Engineering	18
3	M. Tech. in Instrumentation and Control Engineering	18
4	M. Tech in Thermal and Fluid Engineering	18

**Reservation for SC, ST (P), ST (H), OBC and MOBC will be as per Govt. of Assam rules.**

**3.Admission Criteria:** To get admission into the M.Tech. programme, the candidate has to qualify in one of the following Examinations:

- (a) Graduate Aptitude Test in Engineering (GATE)
- (b) GIMT Selection Test for M.Tech. 2017

GATE qualified candidates shall be given preference and these candidates do not have to appear in the ASTU/GIMT selection test.

**4.Date of Entrance Exam and Counseling:** The GIMT Entrance Exam for admission into M.Tech.for the session 2017-18 will be held on as **per date notified in the advertisement**.

## MBA PROGRAMME

**1. Eligibility Criteria:** For admission to the MBA Programme, a candidate must have at least a Bachelor's degree from an Indian/Foreign University (recognised by UGC/AIU), securing not less than 50% in Major subject or in aggregate of the total marks for General category candidates and not less than 45% in Major or in aggregate of the total marks for SC/ST/OBC/other reserved category candidates.

**2. Intake Capacity :** The Intake Capacity for MBA is 60.

**3. Provisional Admission:** Candidates, who will be appearing in the degree final examination of 2017 can apply for admission subject to the condition that –

(a) He/she should have passed the 2nd year Degree examination (10+2+3 pattern) held after two years of admission into the degree course, without any backlog and with at least 50% marks in Major subject or in aggregate. The minimum marks, however, may be relaxed by 5% for candidates falling under the reserved category.

(b) The degree results would be announced by 1st week of November.

**4. Age Limits:** There is no specified age limit for admission to the course.

**5. Admissions** would be based on the performance of student in the **Entrance Examination to be conducted by ASTU or in National level tests (CAT/MAT/ATMA/XAT/CMET)** followed by GD & PI.

**6. Reservation Policy:** Assam Govt. reservation policy for admission will be followed for MBA admission at GIMT.

**7. Counseling for Admission:** Candidates, who have valid CAT/MAT/ATMA/CMAT score card, must appear for GD and PI on as per date advertised in newspapers, at GIMT, Azara, Guwahati. For further information, aspiring students are advised to contact the Department of Business Administration.

## MCA Programme:

**1. Eligibility Criteria:** To be eligible for admission into 1st year MCA Programme, a candidate:

(a) Must have passed the Bachelor's degree (10 + 2 + 3) with a minimum of 50 % (45 % for SC / ST candidates) marks in aggregate or in Honours / Major subject (if any) from Gauhati University or any other recognized University.

(b) Must have Mathematics as a subject in HS (10 + 2) or graduate level.

(c) A student waiting for the declaration of the result for his / her Bachelor's degree examination may also seek **provisional admission. However, such a student must sign an undertaking that his/ her provisional admission is conditional and subject to fulfilling the eligibility criteria for admission stated above.**

**2. Intake Capacity :** The Intake Capacity for MCA is 30.

**3 .To be eligible for admission into 2nd year (lateral Entry) MCA Programme :**

(a) Candidates, who have qualified in B.Sc (Computer Science/IT) / BCA with minimum 50% (45% for SC / ST candidates) marks in aggregate from any University.

(b) Must have Mathematics as a subject in H.S. (10 + 2) or graduate level.

**4.Counseling for Admission:**

**Students seeking admission into MCA Programme in both 1st year and 2nd year (Lateral Entry) are to take provisional Admission as per the date of advertisement in the Newspapers or by Individual intimations. The seats will be allotted to the eligible candidates as per the performance in the Admission Test conducted by the authority.**

**5.Candidate may mail any query related to his/her admission to [hod\\_mca@gimt-guwahati.ac.in](mailto:hod_mca@gimt-guwahati.ac.in) for immediate reply.**

**How to Apply (for all courses):**

**Applicant can apply in two modes:**

**a) Online mode      b) Offline mode**

**a) Online mode:** Applicant can visit official website of GIMT [www.gimt-guwahati.ac.in](http://www.gimt-guwahati.ac.in) where link is provided on “Apply Online” for online application.

**b) Offline mode:** Applicant can visit Admission Cell at **i) GIMT Guwahati ii) GIMT Tezpur iii) SSA Panbazar** for collecting prospectus and application form. However, the completed application form must be submitted at GIMT Guwahati, Azara, on or before last date of submission for the concerned course.

The Price of the Prospectus is Rs 500/-

# RULES AND REGULATIONS

## General Rules and Regulations

Students admitted to the college must abide by the rules and regulations as prescribed by the College Authority. Violation of these may make the students liable to disciplinary action.

Conducts, which might attract disciplinary action, include irregular clearance of college dues, courtesy to the teachers and the staff members in any form, resorting to strikes, indulging in any form of ragging, causing damages to college properties, consumption of alcoholic beverages in public places, smoking within the college premises, unsatisfactory progress in studies, rowdy behaviour inside and outside the college premises etc.

In the case of damages or loss of college property, the college authority reserves the right to impose fines either individually or on per capita basis.

As regards attendance in class, a student shall be eligible to appear in the semester examination as a regular candidate provided he/she has at least 75% attendance in the individual subjects. For irregular students, specific University regulations which includes debarring a student from appearing university examination due to lack of adequate percentage of attendance, will apply.

Students will be required to wear prescribed college uniform / dress and are required to carry the Identity Card at all times.

Student activities like cultural functions, picnics and excursions are organised only with prior permission of the college authorities.

Smoking and use of bettel nuts, shikhar etc. inside the Institute campus is strictly prohibited and will attract fine if found on person.

Use of mobile phone by students in the class room is strictly prohibited.

## Uniform/ Dress Code

	<b>In summer</b>	<b>In Winter</b>
B. Tech Students	<b>Boys:</b> Dark Grey trousers with light Blue shirt and Black shoes with white socks. <b>Girls:</b> Dark Grey Salwar with light blue Kameez or Dark Grey Trouser and Light Blue Shirt and Black shoes with white socks.	Same as summer, in addition to wear Dark grey Sweater / Blazer.
MBA/MCA	<b>Boys &amp; Girls:</b> Dark Grey trousers with light Blue shirt and Black shoes with white socks.	Same as summer, in addition to wear Dark grey Sweater / Blazer.

- To maintain uniformity, all students will procure the uniform from the college campus during admission.
- NO student will be allowed to attend classes without proper uniform.

## Attendance in Classes

GIMT is very strict about the attendance of students in their classes, since there is a direct relation between attendance and result in the examinations. The college authority regularly issues timely reminders to the students to attend all classes from the very beginning of a semester. Students, failing to attain the required 75% attendance, are debarred from appearing in the semester-end examination of the Gauhati University / Assam science & Technology University.

## Anti- Ragging Measures

GIMT has adopted a policy of zero tolerance towards ragging and strives to achieve a completely ragging free institute. We are happy to announce that not a single case of ragging, even a very minor one, occurred in GIMT last year. We have built up a healthy tradition in this regard and we intend to keep it that way.

Hon'ble Supreme Court of India accepted the anti-ragging report submitted by the former CBI Director R K Raghavan that suggested a 2-fold approach of punishment coupled with counseling to tackle the menace.

Accordingly, GIMT also has adopted a multi-pronged strategy to tackle the menace of ragging. It launched an awareness drive amongst the students about the seriousness and consequences of indulging in the act of ragging. To achieve this, the following measures are taken.

1. The college authorities regularly address the students on this aspect to create awareness.
2. Large displays (like banners etc.) are erected at important places around the campus at admission times.
3. An Anti-ragging squad (ARS) has been formed and the names and mobile numbers of the members of the ARS are made available to the students for any fresher to lodge a complaint if subjected to any form of ragging by his/her seniors. The ARS is instructed to keep strict vigil all around the campus. The members of the ARS are authorized to challenge any group/ individual suspected of indulging in any form of ragging.
4. An Anti-Ragging Committee (ARC) has also been setup. The names of the ARC members along with their mobile numbers are published for the victim or his/her parents/guardians to lodge a complaint to the Chairman of ARC. The committee will investigate and suggest mode of punishment for the guilty persons. A student found guilty of ragging is punishable by suspension/ rustication from the Institute.
5. GIMT publishes a booklet titled "Our Goal – A Ragging Free GIMT" and the same is made available to all students free of cost, wherein all the aspects of ragging including the law of the land "The Assam Prohibition of Ragging Act' 1998", the form of possible punishment etc. are described. Students are made to realize that stringent discrepancy action in the form of suspension/ expulsion and rustication from the Institute may result if anyone indulges in any act of ragging. In fact, at times, it may even end one's academic careers. It also highlights the fact that the Hon'ble Supreme Court of India has termed ragging as a crime and makes filing of FIR mandatory by the College authority. GIMT is bound to comply with the above directive.

## Affidavits

[1].All Students seeking admission in GIMT will submit two separate affidavits duly signed by Oath Commissioner as given at pages below. One affidavit will be signed by the student and another by the parents/guardians on Rs 10.00 stamp paper.

[2].All students allotted hostel accommodation will also submit two separate affidavits duly signed by the student and parents respectively as given above.

[3]All affidavits will be submitted when the student joins the Institute.

## Disciplinary rules and actions

### INSTITUTE DISCIPLINE

All students of GIMT are expected to maintain discipline and proper academic atmosphere in the institute. Disciplinary action will be taken against a student if he/she is found to violate the rules and regulations of the Institute.

### ACTS OF INDISCIPLINE

The following acts will invite disciplinary action:

1. Not observing the prescribed dress code,
2. Not displaying the Student Identity Cards,
3. Fraudulent use of Student Identity Card,
4. Bringing in and/or drinking alcoholic beverages or any other narcotic drugs and intoxicant of any kind inside the institute campus,
5. Entering late in the classes(theory as well as practical) by more than 10 minutes.
6. Disturbing the class by gossiping or any other means,
7. Giving proxy attendance,
8. Bunking classes without permission,
9. Sneaking out of the institute campus during the working hours without official permission,
10. Making too loud noises(shouting, hooting, playing music etc.) inside and outside the classrooms causing disturbance to other academic activities,
11. Throwing litter on the floor and not using the dustbins provided for the purpose,
12. Spitting and spoiling the building walls,
13. Using mobile phones within class rooms and laboratories,
14. Bursting crackers within the institute building/campus,
15. Playing Holi within the institute building/campus,
16. Using abusive/foul language within the institute building/campus,
17. Leaving the classrooms with the lights and fans ON,
18. Making false official statement or submitting false documents to any institute official, faculty or staff
19. Making public display of affection within the institute building/campus,
20. Absence from classes for day(s) prior to or after the end of important holydays,
21. Writing graffiti or otherwise disfiguring the walls, desks, tables etc
22. Bringing in dangerous weapons like knife, daggers, acids,, firearms etc. and inflammable materials to

- the Institute/campus,
23. Abusing and/or picking up fights/ fisticuffs with fellow student(s) or institute employee(s) within the institute building/campus,
24. Showing disrespect or committing insubordination to the teachers as well as the institute authority,
25. Stealing/pilfering laboratory or other articles from the institute,
26. Teasing and/or hurting the modesty of a woman,
27. Ragging in any form within the Institute campus,
28. Participating in or promoting any mob activity within the campus to disrupt smooth functioning of the institute,
29. Damaging Institute property,
30. Committing cyber crimes like (i) blackmailing, hacking, cheating etc (ii) uploading/downloading and circulating indecent or offensive write-ups, photographs or videos into/ from the internet.

## Types of Punishment/Disciplinary action

The following punishments/disciplinary actions are recommended subject to confirmation by the Disciplinary Committee of GIMT

- A.Warning the offender(s)
- B.Imposing a fine (individual),
- C.Informing the guardian,
- D.Temporary expulsion from class/Cancelling a number of attendances,
- E.Suspension from the classes for a specific period,
- F.Additional punishment(s) as imposed by the Disciplinary Committee of GIMT after investigation.

Act of indis- cipline	A	B(Rs.)	C	D	E	F
1	✓	100				
2	✓	100				
3	✓	250				
4	✓	500	✓			
5	✓			✓		
6	✓			✓		
7	✓			✓		
8	✓	100				
9	✓	100				
10	✓	100				
11	✓	100				
12	✓	200				
13	✓	100				
14	✓	100				
15	✓	100				
16	✓	200				
17	✓					

18	✓	300	✓						
19	✓	250							
20	✓	250	✓						
21	✓	100							
22	✓		✓						✓
23	✓		✓						✓
24	✓								✓
25	✓		✓						✓
26	✓		✓						✓
27	✓		✓						✓
28	✓		✓						✓
29	✓		✓						✓
30	✓		✓						✓

All disciplinary actions taken shall be notified by the Principal, GIMT. Implementation of the actions taken shall also rest with the Principal, GIMT.

## FEES STRUCTURE



### Course Fees for the session 2017-18

#### B.Tech. Courses (All Branches)

Semester	Date of payment	Admis-sion Fees (Rs)	Tuition fees (per semes-ter) (Rs)	Library and IT service Fees (Rs)	Develop-ment fees (Annual) (Rs)	Student activity & welfare fund (Annual) (Rs)	Cau-tion money (Refun-dable) (Rs)	Elec. charge Annual (Rs)	Total (Rs)
First	Admission time	10,000	32,000	2,000	Nil	5,000	10,000	5,000	64,000
Second	30th Jan, 2018	Nil	50,000	2,000	10,000	Nil	Nil	Nil	62,000
Third	30th Aug, 2018	Nil	50,000	2,000	Nil	5,000	Nil	5,000	62,000
Fourth	30th Jan, 2019	Nil	50,000	2,000	10,000	Nil	Nil	Nil	62,000
Fifth	30th Aug, 2019	Nil	50,000	2,000	Nil	5,000	Nil	5,000	62,000
Sixth	30th Jan, 2020	Nil	50,000	2,000	10,000	Nil	Nil	Nil	62,000
Seventh	30th Aug, 2020	Nil	50,000	2,000	Nil	5,000	Nil	5,000	62,000
Eighth	30th Jan, 2021	Nil	50,000	2,000	10,000	Nil	Nil	Nil	62,000
	Total	10,000	382,000	16,000	40,000	20,000	10,000	20,000	498,000

**Waiver:**

- Students with scores of 90% and above as average in Mathematics, Physics and Chemistry in HS (10+2) examination would avail a waiver of Rs. 2,49,000/- (50%) on their total course fee.
- Students with scores of 80% and above as average in Mathematics, Physics and Chemistry in HS (10+2) examination would avail a waiver of Rs.50,000/- on their total course fee.
- Students getting enrolled in UG course on completion of HS (10+2) from Shrimanta Shankar Academy will get a waiver of Rs. 20,000/- on their total course fee.

**All the waivers will be split over the first two semesters. A student can avail any one of these waivers (whichever is higher).**

## B.Tech. (Lateral) Courses (All Branches)

Semester	Date of payment	Admis-sion Fees (Rs)	Tuition fees (per semes-ter) (Rs)	Library and IT service Fees (Rs)	Develop-ment fees (Annual) (Rs)	Student activity & welfare fund (Annual) (Rs)	Cau-tion money (Refun-dable) (Rs)	Elec. charge Annual (Rs)	Total (Rs)
Third	Admission time	10,000	50,000	2,000	Nil	5,000	10,000	5,000	82,000
Fourth	30th Jan, 2018	Nil	50,000	2,000	10,000	Nil	Nil	Nil	62,000
Fifth	30th Aug, 2018	Nil	50,000	2,000	Nil	5,000	Nil	5,000	62,000
Sixth	30th Jan, 2019	Nil	50,000	2,000	10,000	Nil	Nil	Nil	62,000
Seventh	30th Aug, 2019	Nil	50,000	2,000	Nil	5,000	Nil	5,000	62,000
Eighth	30th Jan, 2020	Nil	50,000	2,000	10,000	Nil	Nil	Nil	62,000
Total		10,000	300,000	12,000	30,000	15,000	10,000	15,000	392,000

**Waiver:**

- Students with scores of 90% and above in 3 years Engineering Diploma Examination would avail a waiver of Rs. 50,000/- on their total course fee.
- Students with score of 80% and above in 3 years Engineering Diploma Examination would avail a waiver of Rs. 25,000/- on their total course fee:

**All the waivers will be split over the first two semesters. A student can avail any one of these waivers (whichever is higher).**

Continue .....

## M.Tech. Courses (All Branches)

Semester	Date of payment	Admis-sion Fees (Rs)	Tuition fees (per semes-ter) (Rs)	Library and IT service Fees (Rs)	Develop-ment fees (Annual) (Rs)	Student activity & welfare fund (Annual) (Rs)	Cau-tion money (Refun-dable) (Rs)	Elec. charge Annual (Rs)	Total (Rs)
First	Admission time	10,000	32,000	2,000	Nil	5,000	10,000	5,000	64,000
Second	30th Jan, 2018	Nil	32,000	2,000	10,000	Nil	Nil	Nil	44,000
Third	30th Aug, 2018	Nil	32,000	2,000	Nil	5,000	Nil	5,000	44,000
Fourth	30th Jan, 2019	Nil	32,000	2,000	10,000	Nil	Nil	Nil	44,000
	Total	10,000	128,000	8,000	20,000	10,000	10,000	10,000	196,000

### Waiver:

- Students having first division/ class throughout their academic career would avail a waiver of Rs. 25,000/- on their total course fee.
- Students scoring 75% or above in B.E/B.Tech.course can avail a waiver of Rs. 25,000/- on their total course fee.
- Students getting enrolled in PG course on completion of UG course from GIMT will get a waiver of Rs. 10,000/- on their total course fee.

**All the waivers will be split over the first two semesters. A student can avail any one of these waivers (whichever is higher).**

## M.B.A. Course

Semester	Date of payment	Admis-sion Fees (Rs)	Tuition fees (per semes-ter) (Rs)	Library and IT service Fees (Rs)	Develop-ment fees (Annual) (Rs)	Student activity & welfare fund (Annual) (Rs)	Cau-tion money (Refun-dable) (Rs)	Elec. charge Annual (Rs)	Total (Rs)
First	Admission time	10,000	46,000	1,500	Nil	5,000	10,000	5,000	77,500
Second	30th Jan, 2018	Nil	46,000	1,500	10,000	Nil	Nil	Nil	57,500
Third	30th Aug, 2018	Nil	46,000	1,500	Nil	5,000	Nil	5,000	57,500
Fourth	30th Jan, 2019	Nil	46,000	1,500	10,000	Nil	Nil	Nil	57,500
	Total	10,000	184,000	6,000	20,000	10,000	10,000	10,000	250,000

**Waiver:**

- Students having first division/ class throughout their academic career will avail a waiver of Rs. 25,000/- on their total course fee.
- Students scoring 75% or above in graduation can avail a waiver of Rs. 25,000/- on their total course fee.
- Students getting enrolled in PG course on completion of UG course from GIMT/GIPS will get a waiver of Rs. 10,000/- on their total course fee.

**All the waivers will be split over the first two semesters. A student can avail any one of these waivers (whichever is higher).**

**M.C.A. Course**

Semester	Date of payment	Admis-sion Fees (Rs)	Tuition fees (per semes-ter) (Rs)	Library and IT service Fees (Rs)	Develop-ment fees (Annual) (Rs)	Student activity & welfare fund (Annual) (Rs)	Cau-tion money (Refun-dable) (Rs)	Elec. charge Annual (Rs)	Total (Rs)
First	Admission time	10,000	10,000	1,500	Nil	5,000	10,000	5,000	41,500
Second	30th Jan, 2018	Nil	20,000	1,500	10,000	Nil	Nil	Nil	31,500
Third	30th Aug, 2018	Nil	20,000	1,500	Nil	5,000	Nil	5,000	31,500
Fourth	30th Jan, 2019	Nil	20,000	1,500	10,000	Nil	Nil	Nil	31,500
Fifth	30th Aug, 2019	Nil	20,000	1,500	Nil	5,000	Nil	5,000	31,500
Sixth	30th Jan, 2020	Nil	20,000	1,500	10,000	Nil	Nil	Nil	31,500
	Total	10,000	110,000	9,000	30,000	15,000	10,000	15,000	199,000

**Waiver:**

- Students having first division/ class throughout their academic career would avail a waiver of Rs. 25,000/- on their course fee.
- Students scoring 75% or above in graduation can avail a waiver of Rs. 25,000/-on their course fee.
- Students getting enrolled in PG course on completion of HS (10+2) from Shrimanta Shankar Academy will get a waiver of Rs. 10,000/- on their total course fee.

**All the waivers will be split over the first two semesters. A student can avail any one of these waivers (whichever is higher).**

## M.C.A.(Lateral)

Semester	Date of payment	Admis-sion Fees (Rs)	Tuition fees (per semes-ter) (Rs)	Library and IT service Fees (Rs)	Develop-ment fees (Annual) (Rs)	Student activity & welfare fund (Annual) (Rs)	Cau-tion money (Refun-dable) (Rs)	Elec. charge Annual (Rs)	Total (Rs)
Third	Admission time	10,000	20,000	1,500	Nil	5,000	10,000	5,000	51,500
Fourth	30th Jan, 2018	Nil	20,000	1,500	10,000	Nil	Nil	Nil	31,500
Fifth	30th Aug, 2018	Nil	20,000	1,500	Nil	5,000	Nil	5,000	31,500
Sixth	30th Jan, 2019	Nil	20,000	1,500	10,000	Nil	Nil	Nil	31,500
	Total	10,000	80,000	6,000	20,000	10,000	10,000	10,000	146,000

### Waiver:

- Students having first division/ class throughout their academic career would avail a waiver of Rs. 25,000/- on their course fee.
- Students scoring 75% or above in graduation can avail a waiver of Rs. 25,000/- on their course fee.
- Students getting enrolled in PG course on completion of HS (10+2) from Shrimanta Shankar Academy will get a waiver of Rs. 10,000/- on their total course fee.

**All the waivers will be split over the first two semesters. A student can avail any one of these waivers (whichever is higher).**

## PAYMENT PROCEDURES

### For Newly Admitted students

(a) All fees will have to be paid in the form of Online Banking system through the payment gateways by (a) Net Banking (b) Credit cards (c) e-payment systems by visiting the website Address

<http://www.gimt-guwahati.ac.in/payments>

No Cash or Part payment will be accepted. Fees once paid will not be refunded.

(b) On the day of counseling, selected students will have to pay the Provisional Admission Fees of Rs. 10,000/- (Rupees ten thousand only) by cash or through swipe machine at GIIMT Admission Cell.

(c) The balance amount will have to be paid online within a week, failing which the offer of admission will be withdrawn and the seat will be offered to the next eligible candidate.

N.B. : i) The aforementioned fee structure does not include University Registration and Examination Fees

and will have to be paid in cash as and when need arises.

ii) In exceptional cases Demand Draft/ Banker's cheque drawn at any Nationalized Bank in favour of Shrimanta Shankar Academy A/c- GIMT, payable at Guwahati will be accepted only on approval from the GIMT authority.

### **Documents to be submitted at the time of admission:**

- a)Original copies of all documents for verification .
- b)Anti-ragging affidavit of student and parent, duly signed by Notary on Rs 10.00 stamp paper.

### **Payment of Semester Fees (Second semester onwards):**

Fees will have to be paid in any of the form of Online Banking System by

- i) Net Banking (ii) Credit Cards
- (iii) e-payment system by visiting the website [www.gimt-guwahati.ac.in/payment](http://www.gimt-guwahati.ac.in/payment)

## **GUIDELINES FOR ADMISSION, BRANCH TRANSFER AND WITHDRAWAL: B.TECH. COURSES**

### **Admission**

- 1.The PROVISIONAL ADMISSION into various B.Tech courses will start from 1 June 2017.
- 2.Interested candidate fulfilling all eligibility criteria may take provisional admission into B.Tech course in a branch of his/her choice offered by the admission authority by paying the Admission fees of Rs. 10,000/- by cash or through swipe machine.
- 3.The candidate has to confirm his/her admission by paying the balance amount of 1st semester fees through online payment procedure within 7 days from the date of his/her provisional admission. Once the candidate paid the full amount of 1st semester fees his/her admission will be confirmed.
- 4.If any candidate has not paid the balance amount of 1st semester fees as mentioned at item No. 3 within the specified period, his/her admission will be automatically cancelled.
- 5.The candidates selected through JEE (Main) counseling or CEE counseling have to take provisional admission by paying Rs. 10,000/- by cash on the spot. He/she has to confirm his/her admission by paying the balance amount of 1st semester fees through online payment procedure within 7 days from the date of his/her provisional admission. Once the candidate pays the full amount of 1st semester fees, his/her admission will be confirmed.
- 6.If any candidate selected through JEE (Main) counseling or CEE counseling has not paid the balance amount of 1st semester fees as mentioned at item No. 5, his/her admission will be automatically cancelled.
- 7.The admission fees Rs. 10,000/- is non-refundable.

## Scope of Branch Transfer

8.If a candidate takes provisional admission before JEE (Main) counseling or CEE counseling, he/she will get a chance to transfer his/her branch opted at the time of provisional admission by appearing in any one/or both the counseling as mentioned below.

(a)JEE (Main)-2017 counseling to be held at GIMT Guwahati on 4<sup>th</sup> July 2017.

(b)CEE-2017 counseling to be conducted by the concerned authority of Govt. of Assam.

## Withdrawal

1)If a candidate withdraws his/her admission within 7 days from the date of his/her admission confirmation and before 10 July 2017, then the 1st semester fees will be refunded to the candidate by cheque.

2)If a candidate withdraws his/her admission within 7 days from the date of his/her admission confirmation but after 10 July 2017 then Rs. 2,000/- per day will be deducted from the 1st semester fees w.e.f. admission confirmation date and the balance amount will be refunded to the candidate by cheque.

3)If a candidate withdraws his/her admission after 7 days from the date of his/her admission confirmation, then only caution money will be refunded to the candidate by cheque.

4)If a candidate withdraws his/her admission on or after 1 August 2017, then only caution money will be refunded to the candidate by cheque.

5)If a candidate withdraws his/her admission in between the duration of the course due to some reason, then all dues payable by him/her will be realized from the caution money and the remaining amount of the caution money will be refunded to the candidate by cheque.

6)For withdrawal of admission, candidates are required to submit an application addressed to the Principal, GIMT Guwahati mentioning the reason of withdraw at the Admission Cell. The date of application received by the Admission Cell of GIMT, Guwahati will be considered as the date of application. All original money receipts should be attached with the application.

7)The classes for B.Tech. courses will start from 1 August 2017.

## GUIDELINES FOR ADMISSION AND WITHDRAWAL: M.TECH./MCA/MBA COURSES

### Admission

1.Interested candidate fulfilling all eligibility criteria may take provisional admission into M.Tech or MCA or MBA course as applicable by paying the Admission fees Rs. 10,000/- by cash or through swipe machine.

2.The candidate has to confirm his/her admission by paying the balance amount of 1st semester fees of the concerned course within 7 days from the date of his/her provisional admission. Once the candidate pays the full amount of 1st semester fees his/her admission will be confirmed.

3.If any candidate has not paid the balance amount of 1st semester fees applicable for the concerned course as mentioned at item No. 2, his/her admission will be automatically cancelled.

4.The admission fees Rs. 10,000/- is non-refundable.

## **Withdrawal**

1) If a candidate withdraws his/her admission within 7 days from the date of his/her admission confirmation and before 20 July 2017, then the 1st semester fees will be refunded to the candidate by cheque.

2)If a candidate withdraws, his/her admission within 7 days from the date of his/her admission confirmation but after 20th July 2017 and before 7August 2017, then Rs. 2,000/- per day will be deducted from the 1st semester fees from admission confirmation date and the balance amount will be refunded to the candidate by cheque.

3)If a candidate withdraws his/her admission after 7 days from the date of his/her admission confirmation, then only caution money will be refunded to the candidate by cheque.

4)If a candidate withdraws, his/her admission after 7 August 2017, then only caution money will be refunded to the candidate by cheque.

5)If a candidate withdraws his/her admission in between the duration of the course due to some reason, then all dues payable by him/her will be realized from the caution money and the remaining amount of the caution money will be refunded to the candidate by cheque.

6)For withdrawal of ADMISSION, candidates are required to submit an application addressed to the Principal, GIMT, Guwahati mentioning the reason of withdraw at the ADMISSION CELL. The date of application received by the ADMISSION CELL of GIMT, Guwahati will be considered as the date of application. All original money receipts should be attached with the application.

**The classes for M.Tech./MCA/MBA courses will start from 1 August 2017.**



**GIMT promotes and nourishes a perfect blend of academic and co-curricular excellence.**

## GIMT INITIATIVES

“GIMT INITIATIVES” is a process of initiating a groundbreaking change in the society. At GIMT, these initiatives are converted into pledges and thereafter into action so that the entire fraternity of students and faculty works together to turn GIMT into an institute with a difference, with an endeavor.

Apart from Academics, extracurricular activities are given equal significance. For the purpose various clubs like career counseling, cultural, handicraft, drama, literature, photography, quiz, debate,

robotics etc. have been set up under the guidance of experts for the all round development and quality output. National Seminars, workshops, training camps are often organized to facilitate the students in developing their leadership skills and sense of responsibility



### NAKASH AZIZ

PRO NITE ARTIST  
2017



towards their assigned duty. Past years have continuously witnessed some major social activities like tree plantations within the campus as well as in the surrounding areas, various awareness drives under “Swachh Bharat Abhiyan” like distribution of dustbins in various selected schools of Guwahati, initiated state-level cleanliness projects and organized various prize money competitions among school students, blood donation camps, health camps etc. Besides this a number of interactive sessions with experts from industry and technical arena are often initiated to motivate the students and provide an insight into some major challenges of practical life. Industrial visits and tours are conducted mainly for pre-final year students to strengthen their theoretical knowledge and to build confidence for survival. The wall magazine “UTTARAN” and the college magazine “GIMTECH” are incredible initiatives in the field of literary works.

SAMANTRANA is another initiative in bridging the gap between industry and academia. The two day National Seminar was a joint venture by GIMT Guwahati and Tezpur along with collaborative partner AICTE and ASTU. Eminent speakers from both industry and academia had a fruitful discussion on different aspects of industry- academia collaboration. Some of the noted speakers were Prof. Dhiraj Bora, VC, ASTU, Prof. Gautam Barua, Mentor Director, IIIT Guwahati, Prof. A K Das, Professor, IITG and Interim Director, IIIT Manipur, Dr. Anil Kapur, President (Sales), Topcem India, Mr. Harsh Manglik, Ms. Amreeta Mazumdar, Head of Tech Staffing, Google India, etc.



## EUPHUIISM.....Celebrating life

The advent of the new year fills the ambiance with the symphony of its annual gala fest “EUPHUIISM” that had a mega start in the year 2009. “EUPHUIISM” is normally organized with 3-day programme that includes 2 sensational pronites. During the three day extravaganza various intercollege events are organized viz. Quiz, Debate, Photography contest, movie making, ad-making, essay writing, singing & dancing competitions etc. In addition inter-college Technical events like Robotics, Cryptex , Circuitronics, Computer Gaming are also part of the fest. Fun Games like 5-a-side football, Intercollege cricket match etc. are also part of this event. Past three years have witnessed mass participation of students from various colleges.

“GLITTERS” the personality contest is one of the main attraction of the plethora of events held during Euphuism judged by various cine stars, reputed models and industry persons adding an extravagant touch to the event.

The most awaited cultural nites claims the enthralling performances of both national as well as international bands like “EUPHORIA” in 2009, “STRANGE BREW” ( Pune based rock band) and “BOMBAY ROCKERS” from Amsterdam in 2010. “JUNKYARD GROOVE” (Chennai based rock band) and ZUBEEN GARG along with Zubee and Dikshu gave a sparkling performance in 2011 while RAGHU DIXIT PROJECT and HIGHER ON MAIDEN (an Official tribute to IRON MAIDEN) rocked the show in 2012, “EAST INDIA COMPANY” & local sensation SIMANTA

SHEKHAR mesmerized the audience in 2014, bollywood sensation **SURAJ JAGAN** gave a riveting show in 2015 .

**Euphuism 16 ‘Aksharam’** too concluded with much hype and enthusiastic participation intended to add something new and different. A gala of 40 events and sensational pronites that witnessed the exciting concert of **CLINTON CEREJO** band from bollywood.

**EUPHUIISM 17 ‘YOUVANA’** celebrated the power and unbound contributions of youth towards nation building. The main event was got off the ground with a Marathon for the first time in the institute’s history. Around 700 participants ran in the Marathon. Popular Bollywood singer Nakash Aziz fascinated the crowd with his rocking performance.

The main event is preceded by a sports week that embraces various intra - college events Cricket, Football, Volleyball and individual events like Carrom, Chess, Badminton, Table Tennis etc. Such of its kind provide the students an exposure of immense magnitude packaged with a platform to mobilize their talent.

**Euphuism** is not only an amusement event but through it the organisation also targets some social responsibility for which it organizes a signature campaign taking up certain social issues.

# ACADEMIC ACHIEVEMENTS

Name of the students	Rank in Gauhati University examinations, 2010
Biswadeep Poddar	First class first position in BE examination in electronics and telecommunication
Arnab Kundu	First class first position in BE examination in computer science and engineering
Priyom Dutta	First class first position in BE examination in applied electronics and instrumentation
Swati Agarwal	First class first position in BE examination in information technology
Debolina Bhuyan	First class first position in BE examination in business administration

Name of the students	Rank in Gauhati University examinations, 2011
Jagriti Phukan	First class first position in BE examination in information technology
Pratiksha Sarmah	First class first position in BE examination in applied electronics and instrumentation
Gitimoni Talukdar	First class first position in BE examination in computer science and engineering
Amita Sengupta	First class first position in BE examination in electronics and telecommunication

Name of the students	Rank in Gauhati University examinations, 2012
Bidisha Sharma	First class first position in BE examination in electronics and telecommunication
Anirban Lekharu	First class first position in BE examination in computer science and engineering
Jugal Kishore Bharadwaj	First class first position in BE examination in applied electronics and instrumentation
Bharat Jyoti Hazarika	First class first position in BE examination in information technology
Shuvayan Brahmachary	First class first position in BE examination in mechanical engineering
Anupam Saikia	First class first position in BE examination in electrical engineering
Sunilam Chakraborty	First class first position in Computer Application

Name of the students	Rank in Gauhati University examinations, 2013
Panchali Das	First class first position in Computer Application final examination
Abu Raihan	First class second position in Computer Application final examination
Prarthana Sarma	First class first position in BE examination in applied electronics and instrumentation
Salma Sultan Khatun	First class second position in BE examination in applied electronics and instrumentation
Neelam Agarwala	First class first position in BE examination in information technology
Bidisha Dutta	First class second position in BE examination in applied electronics and instrumentation

Name of the students	Rank in Gauhati University examinations, 2014
Rajat Kamal Kakati	First class first position in BE Examination in Mechanical Engineering
Kashmiri Deka	First class second position in BE Examination in Mechanical Engineering
Daisy Gogoi	First class first position in BE Examination in Applied Electronics and Instrumentation
Kalyan Bhattacharjee	First class second position in BE Examination in Applied Electronics and Instrumentation

Name of the students	Rank in Gauhati University examinations, 2015
Priti Mazumdar	First class first position in BE Examination in information Technology
Jayashree Talukdar	First class second position in BE Examination in information Technology
Parijat Bharali	First class third position in BE Examination in Mechanical Engineering
Neelakshi Deka	First class fifth position in BE Examination in Mechanical Engineering
Anushree Bordoloi	First class fifth position in BE Examination in Electronics and Telecommunication

**Name of the students Rank in Gauhati University examinations, 2016**

Pompi Kalita	First class first position in BE Examination in Applied Electronics and Instrumentation Engineering
Ankita Haloi	First class second position in BE Examination in Applied Electronics and Instrumentation Engineering
Anupam Nath	First class second position in BE Examination in Computer Science and Engineering
Mahasina Sultana	First class third position in BE Examination in Computer Science and Engineering
Juena Gogoi	First class fourth position in BE Examination in Mechanical Engineering
Jyoshree Chakraborty	First class seventh position in BE Examination in Electronics and Telecommunication Engineering

**Name of the students Rank in Gauhati University examinations, 2016**

Shatabdi Chetia	First class first position in Master of Computer Application (MCA)
Bhaswati Kumar	First class second position in Master of Business Administration (MBA)

# SCHOLARSHIP AND AWARDS



## Scholarships:

The students admitted in the Institute can avail different types of scholarship schemes of different agencies. After getting admission in different courses students can apply the scholarship schemes as advertised by different agencies. The students of GIMT avails the different types of Scholarship schemes from NEC, DTE, Minority bodies, AICTE in different schemes. .

**The statistics of scholarship received by the students from different agencies is as under :-**

SI No	Organisation	2011-12	2012-13	2013-14	2014-15
1	North Eastern Council (NEC) (Merit scholarship)	12	16	17	07
2	Ministry of Minority, GOI (Merit Cum Mean scholarship)	63	-	32	57
3	UGC, GOI (Ishan Uday)	-	-	-	15
4	Govt of Assam (DTE) / AICTE ( Merit scholarship)	8	21	12	-
5	Arunachal Pradesh	-	-	2	3
6	Assam (SC & ST)	-	-	-	SC-2, ST-10

## Fee Waivers:

As per fee waiver scheme of GIMT, the fee has been waived for different students with a statistics as follows:

SI No	Details	Total Students awarded	Amount
1	Fee waived (2012-13)	33	Rs 10,00,000/-
2	Fee waived (2013-14)	37	Rs 10,25,000/-
3	Fee waived (2014-15)	33	Rs 20,35,000/-
4	Fee waived (2015-16)	41	Rs. 12,30,000/-
5	Fee waived (2016-17)	20	Rs. 6,82,000/-

## Awards:

GIMT also provides awards to the students who can show their excellent performance in the examinations at different semesters . The statistics of Awards received by the students in different examination is shown below:-

<b>Sl No</b>	<b>Details</b>	<b>Total Students awarded</b>	<b>Amount</b>
1	Odd Semester Examinations (2014-15)	62	Rs 5,16,000/-
2	Even Semester Examinations (2014-15)	54	Rs. 5,42,000/-
3	Odd Semester Examinations (2015-16)	65	Rs. 6,69,000/-
4	Even Semester Examinations (2015-16)	77	Rs. 7,94,000/-

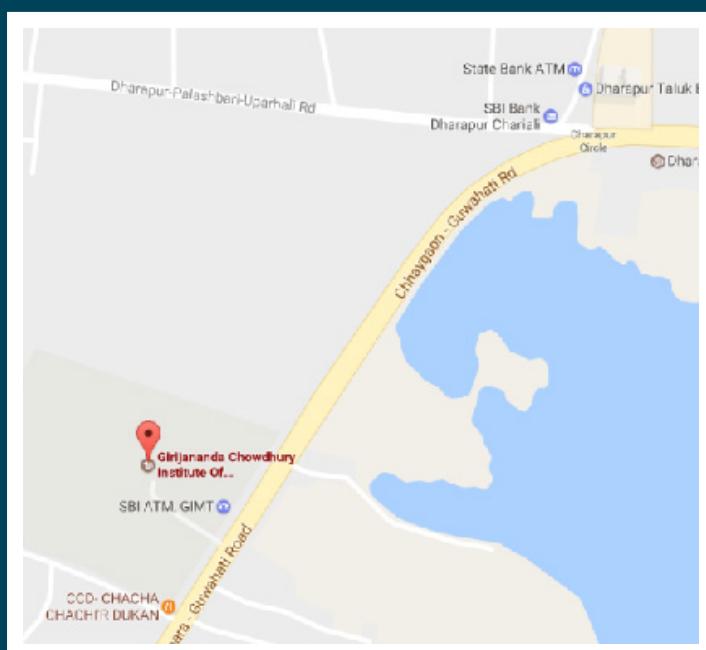
**"Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence."**

-Helen Keller



#### **Address & Contact Numbers :**

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#### **LOCATION**

GIRIJANANDA CHOWDHURY INSTITUTE OF MANAGEMENT & TECHNOLOGY (GIMT) is conveniently located at Azara, Guwahati on the National Highway No. 37 going from Guwahati to Goalpara. It is away from the hustle of Guwahati city and provides a congenial atmosphere for diligent academic pursuit. It is an idyllic spot located five km to the East of Lokapriya Gopinath Bordoloi International Airport and 16 km from Guwahati Railway Station. Sprawled over more than 6 acres of land, it is on the bank of the famous Deepor Beel, a natural water body which is a heaven for birdwatchers and lovers of aquatic life. The majestic Khasi & Jayantia hills stand on the southern side of the "Beel" providing a green picturesque view that is soothing to the eye. The college is well connected to the city and to all other places of the country through various modes of public and private transport.