**ABOUT THE DEPT**

The Department of Applied Science and Humanities, (or ASHU), is one of the oldest departments in GNIT, being present from the inception of the institute in 2003, and some of the faculty members in the Dept were the earliest teachers to join the institute. It is also the Dept with the largest student presence, as the entire student body in B. Tech 1st Year is under its provenance. This student body is always more than 400 strong making ASHU the most populous Dept in numbers. The Dept also excels by reason of attracting dedicated and talented teachers and staff, who are research-active, conscientious, and continually strive to bring the Dept closer to an approximation of its goals and long-cherished objectives. The Vision and Mission of the Dept are given below:

**Vision**

To convert the students of technology into successful professionals and human resources of high caliber through intellectual, moral, and value based training along with highly motivated academic activities by the support of a group inspiring, dedicated and capable teachers and empowering infrastructures which make them eligible to contribute innovatively towards the technological up gradation of the nation and also to cater to the needs of society as committed citizens.

**Mission**

Offering a complete service to the students of technology by ensuring an all round development i.e.

* To ensure the smooth journey of a 12th passed out student towards a successful career of Engineering by bridging the gap between science and technology.

To create a teaching – learning environment conductive to the pursuit of Higher

* Knowledge, relevant skills and experience

To train them with the basic ethical values of profession.

* To promote awareness on ecological and environmental issues.
* To sensitize the students on current socio-economic issues by including related topics into the co-curricular activities.
* To give exposure to basic principles of Management and Business Economics urgently needed by the present day professionals
* To make them aware of the proper technical languages & corporate requirements through aptitude and soft skill classes.
* To create research environment which can lead to consultancy and extension activities and finally to make them industry ready.

The Dept of ASHU is a service department catering to the teaching of several important and basic subjects in all the core engineering departments in the college, not only in the 1st Year but also in several other years and semesters of the four year B. Tech course. The Departments and courses catered to by this Department include the following:

* **B. Tech** in Computer Science & Engineering, Applied Electronics & Instrumentation, Electrical Engineering, Electronics and Communication Engineering, Food Technology and Information Technology.
* **M.Tech** in Computer Science & Engineering, Electronics and Communication Engineering, Food Technology
* **Bachelor in Computer Applications** and **Master in Computer Applications**
* **Bachelor in Hospital Management**
* **Diploma in ETCE and EE** (since 2015)

The Dept is quite multi-faceted in its composition, and includes five collateral Sections, each with a separate set-up and a Section-in-Charge. These include:

* **Physics**
* **Chemistry**
* **Mathematics**
* **English**
* **Mechanical Science**

Each Section has well-equipped and state-of-the-art laboratories under it, where students get hands-on practice in subject areas by performing live experiments under teacher supervision.

**The Physics Section:**

Physics being one of the most important subjects forming the foundation of several engineering disciplines, it forms part of the B. Tech curriculum in both 1st and 2nd year in most of the Streams. The Section has a dedicated core of faculty members and laboratory staff, with Dr Soma Mukherjee, Assistant Professor of Physics, being the Section-in-Charge. There are two Physics Laboratories functioning round the clock for B. Tech courses, a Dark Room Lab and a separately functioning Physics Lab for Diploma courses. In the labs the students perform diverse experiments with various set-ups and are also guided by teachers in projects in their 1st Year courses.

**The Chemistry Section:**

Engineering Chemistry and Environmental Science are some of the basic subjects forming the core of various engineering disciplines. As such they are taught in both 1st and 2nd Year B. Tech courses in various Streams. The Section has a dedicated core of faculty members and laboratory staff, with Dr Sreyasree Basu, Assistant Professor of Chemistry, being the Section-in-Charge. The faculty members and staff cater to a wide variety of students, guiding them through various experiments utilizing multiple set-ups and also guiding them in various innovative projects. There are two Chemistry Laboratories functioning regularly for B. Tech courses.

**The Mathematics Section:**

Mathematics is a crucial subject and as such finds an important place in the engineering curriculum in several years of the B. Tech course. The Section has a dedicated core of faculty members with Dr Sucharita Chakrabarti, Assistant Professor of Mathematics, being the Section-in-Charge & also HOD. The faculty members also teach in post-graduate courses like M. Tech and MCA. They also mentor and guide students in projects in the subject in the 1st Year B. Tech course. They also play an instrumental role in imparting placement training in Quantitative Aptitude to the pre-final year students and in making them industry ready.

**The English Section:**

English is a crucial subject in imparting communicative competence to the young rising professionals being educated by the institute, and as such it finds an important place in the engineering curriculum in several years of the B. Tech course. The Section has a dedicated core of faculty members with Dr Indrajit Bose, Assistant Professor of English, being the Section-in-Charge. The faculty members also teach in post-graduate courses like MCA. They also mentor and guide students in projects in the subject in the 1st Year B. Tech course. They also play a vital role in imparting placement training in Verbal Ability & Soft Skills to the pre-final year students, grooming them for GD and Personal Interview and in making them industry ready.

**The Mechanical Engineering Section:**

Mechanical Science is one of the most important subjects forming the foundation of several engineering disciplines, it forms part of the B. Tech curriculum in both 1st and 2nd year in most of the Streams. The Section has a dedicated core of faculty members and laboratory staff, with Mr Sourav Majumdar, Assistant Professor of Mechanical Science, being the Section-in-Charge. There is a Thermal Power Laboratory functioning round the clock for B. Tech courses, a Graphics Hall and workshop and a separately functioning Graphics Lab for Diploma courses.