

## **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 1<sup>st</sup> Year is under its provenance. This student body is always more than 500 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 nurture students through intellectual, moral and value based education, enabling them to contribute innovatively toward Science and Technology to become future leaders in their profession and responsible citizens"***

### **Mission**

**To achieve its vision the Department is committed to providing the students of technology holistic development through**

- **enabling the smooth transition of a 12th passed out student towards a successful career in Engineering by bridging the gap between science and technology.**
- **creating a teaching – learning environment conducive to the pursuit of Higher Knowledge, relevant skills and experience**
- **training them in the basic ethical values of profession.**
- **enabling awareness on ecological and environmental issues, sensitizing on current socio-economic issues.**
- **providing exposure to basic principles of Management and Business Economics needed by the present day professionals**
- **providing awareness building on language use by technical professionals and corporate behavior and etiquette through aptitude and soft skill training.**
- **creating a conducive research environment leading to consultancy and extension activities and making 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 1<sup>st</sup> 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
- **Master in Computer Applications**
- **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 1<sup>st</sup> and 2<sup>nd</sup> year in most of the Streams. The Section has a dedicated core of faculty members and laboratory staff, with Dr. Soma Mukherjee, 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 1<sup>st</sup> 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 1<sup>st</sup> and 2<sup>nd</sup> Year B. Tech courses in various Streams. The Section has a dedicated core of faculty members and laboratory staff, with Dr. Sreyasree Basu, 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, Associate 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 1<sup>st</sup> 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, 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 1<sup>st</sup> 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 1<sup>st</sup> and 2<sup>nd</sup> 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.