

## Department of Instrumentation Related FAQs

### **Q1. What is B.Sc. (H) Instrumentation?**

Ans. B.Sc. (Hons) Instrumentation is a specialized branch of physical sciences which caters to the study of measurement in physical, chemical, biological sciences along with medical and engineering sciences. B.Sc. (H) Instrumentation is a professional course which is designed to develop skills which impart knowledge in science and technology of design, measurement and development of various instruments in the field of healthcare, electronic and electrical.

### **Q2. What are the learning outcomes after B.Sc. (H) Instrumentation?**

Ans. At a time when automation, data science and artificial intelligence are being considered instrumental in defining the onset of the fourth industrial revolution, an outcome-oriented course in Instrumentation has potential to produce trained professionals ready to take up the challenges in research, industrial and commercial organizations. The program in Instrumentation is designed to develop academic and practical skills. The course covers various domains like Transducers and Sensors, Artificial Intelligence, Computer Aided Design, Control Systems, Electronic Instrumentation, Measurement Technology, Analytical Instrumentation, Biomedical Instrumentation and Standardization and Quality Control, with the aim to produce graduates capable of adapting to technological changes.

### **Q3. Why to choose a Bachelor Degree Programme in B.Sc. (Hons) Instrumentation?**

Ans. This is a multi-disciplinary stream and covers subjects from various branches such as chemical, mechanical, electrical, electronics, biomedical and computers. This helps in making a switch to other disciplines, if anyone wishes to after completion of the Course. Instrumentation is a specialised branch and it deals with advanced instrumentation, measurement, control and automation of processes.

### **Q4. What are the eligibility criteria for admission in B.Sc. (H) Instrumentation?**

Ans. Candidates must appear in CUET in any of the following subject combinations:

**Combination I:** Physics + Mathematics + Chemistry

OR

**Combination II:** Physics + Mathematics + Computer Science/ Informatics Practices

Merit will be based on the best CUET scores obtained from any of the above-mentioned combinations of subjects.

Candidates must have obtained a minimum of 30% score in any one language of List A in CUET.

### **Q5. How many colleges in University of Delhi offer B.Sc. (H) Instrumentation course.**

Ans. Only two colleges in University of Delhi offer B.Sc. (H) Instrumentation course i.e Shaheed Rajguru College of Applied Science for Women and Bhaskaracharya College for Applied Science.

**Q6. How old is B.Sc. (H) Instrumentation?**

Ans. It started in year 1989 as B.A.Sc. Instrumentation course and later in 2010, the course was revised as B.Sc.(H) Instrumentation.

**Q7. What is the future scope of B.Sc. (H) Instrumentation?**

Ans. This course imparts knowledge and prepares skilled manpower that can design, develop, use and maintain various advanced instruments and creates bright career prospects. The students are also eligible for pursuing M.Sc. Instrumentation, M.Sc. Electronics, M.Sc. IT, M.Sc. Operational Research, M.Sc. Forensic Science, M.Sc. Environmental Science, MCA and MBA from various Universities across India.

**Q8. What are the job opportunities after B.Sc. (H) Instrumentation?**

Ans. The graduates of B.Sc. Instrumentation find career opportunities in a wide range of organizations including, healthcare industry, electronics and IT industry. Some of our alumni are well placed in companies like TCS, Wipro, Waters, Sun Pharma, Dabar industries, Biocon, Jubilant Generics.

**Q9. Are any training or summer internships offered by the Department of Instrumentation?**

Ans. Yes, the Department of Instrumentation encourages students to do training or summer internships from industry or other universities. However, the Department of Instrumentation also offers training and summer internship in fields such as advanced analytical instrumentation, semiconductor devices and its applications, nanoscience and nanotechnology and embedded systems designs and IoT. Apart from this, the Department of Instrumentation offers some career enhancement programs such as Industrial visits, expert's lectures, career counselling by alumni and workshops.

**Q10. What are the laboratories and other facilities available in the Department of Instrumentation?**

A The department has well-equipped laboratories such as machine lab, microprocessor and microcontroller lab, analytical instrumentation lab, biomedical lab, wet synthesis lab, electronics lab, measurement and testing lab, communication lab. The department also has a small library/book club and a reading room. Students use this facility during practical and otherwise.