



Creating a World of Leaders



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**DURATION:**  
**REGULAR (3 YEARS)**  
**FAST TRACK AVAILABLE**

# **GRADUATE PROGRAM IN INSTRUMENTATION ENGINEERING**



**ELIGIBILITY: DIPLOMA OR ABOVE**



**WORK EXPERIENCE: 3 YEARS**



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The right & deemed fit students will be provided with 100% placement assistance

## COURSE DESCRIPTION

Instrumentation is an art and science of measurement and control of process variables and calibration of various instruments. Instrumentation engineering is a multi-disciplinary stream and covers subjects from various branches such as chemical, mechanical, electronic, electrical and computer science. It deals with measurement, control and automation of process.

Almost all process and manufacturing industries will work with a separate instrumentation department which is managed by instrumentation engineers. The growth of aeronautical and space science sectors has also increased the scope for instrumentation engineering. Instrumentation engineers can also fit in both software and hardware sectors. Scope of instrumentation engineers in government PSU and semi-government plants are also on the high.

The required tasks are very domain dependent; instrumentation engineers typically work for industries with automated process with the goal of improving the productivity, reliability, safety, optimisation and stability. Instrumentation engineers are commonly responsible for integrating the sensors with the recorders, transmitters, displays or control systems. They may design or specify installation, wiring and signal conditioning. They may be responsible for calibration, testing and maintenance of the system.

## COURSE INFORMATION

Instrumentation engineering is one of the new and less popular engineering branches in India, therefore, less number of candidates get into this field. Candidates having a graduation in instrumentation engineering are offered some good job opportunities in the electrical, mechanical as well as electronics sector. Additionally, because of the multidisciplinary nature, an instrumentation engineer can also work within or outside the industry.

There are various instrumentation engineer job profiles and one can progress in his/her career by acquiring specialist knowledge of a particular industry sector and/or area of instrumentation knowledge.

### **Pros of becoming a Instrumentation Engineer**

There are wide range of career opportunities for an instrumentation engineer. They can choose to work in a variety of industries including telecommunications, automation and manufacturing industries. Additionally, they can progress in their career by specializing in specific areas.

The wider knowledge base of an instrumentation engineer gives them an edge over mechanical or electrical engineers in a plant.

## Our Subjects

### YEAR 1

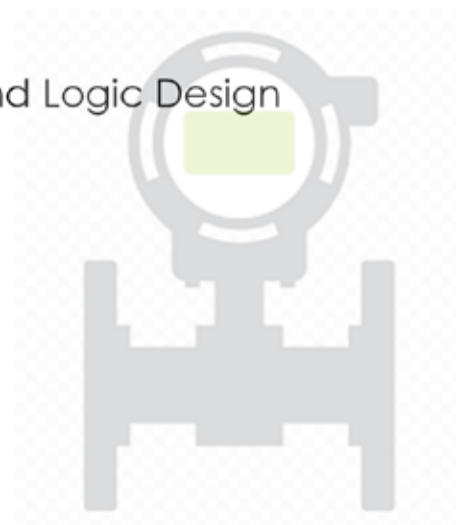
- Essentials of Management
- Electrical Engineering
- Basic Electronic Engineering
- Microprocessors
- Basic Industrial Instrumentation
- Communication Skill

### YEAR 2

- Elements of Process Control
- Analytical Instrumentation
- Environmental Instrumentation
- Optoelectronic Instrumentation
- Microprocessor and Computer Architecture
- Organizational Behaviour

### YEAR 3

- Biomedical Instrumentation
- Power Plant Instrumentation
- Optical Instrumentation
- Aerospace and Navigation Instruments
- Robotics
- Switching Theory And Logic Design



## ABOUT US

N.I.M.S is a division of Norwich Group based in South India for more than a decade. Norwich Institute of Management Studies helps in training, online courses and online exams. All the Certificates are affiliated from International Council of Distant Education (ICDE). All the online courses and exams will be well monitored by the institution and, the provided certificates are ISO certified and can also be used for International Travel and study based programs.

## Exam & Duration:

**Online Exam: 2 hours/paper**

**Total Fees For Indian Residents : Rs. 47790\***

**Total Fees For Foreign Residents : US \$ 815**

*\*Terms and conditions apply*