



ABOUT A. E. & I.

Applied Electronics & Instrumentation



About A. E. & I Engineering

Applied Electronics & Instrumentation is a specialized branch in Electronics engineering which deals with application oriented aspects of electronics.

You study

- Electronics (70%)
- Instrumentation
- Practical experience in electronics experiments & hands on experience in industrial like set up laboratories

During your course



A. E. & I Course Details

First Year – **Common to all** :Engineering graphics, mechanics, mathematics, physics chemistry, basics of electrical engineering & basics of electronics engineering

S3, S4 – **Common to ECE & AEI** : Maths, Computer Programming-theory & lab, Basics of Electronics-Circuits-both theory & lab

S5- :Little more Maths, Electronics & Instrumentation Basics-theory & Lab

S6- :Electronics-Power Electronics, Process control basics, Instrumentation -theory & lab+ Mini project

S7- :Applied Electronics- Microprocessor & Microcontroller, Instrumentation -theory & lab

S8- :Main project work, Instrumentation, advanced Process control & Lab



About Instrumentation

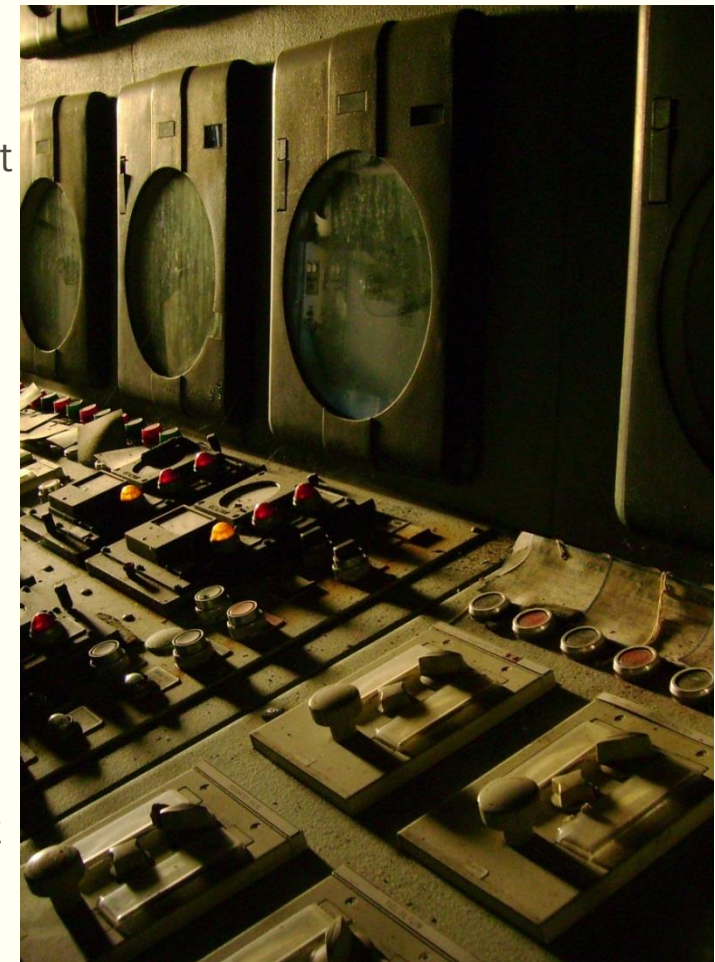
INDUSTRIAL APPLICATION OF ELECTRONICS –INSTRUMENTATION

Instrumentation deals with the measurements and control of different physical parameters like temperature, pressure, flow, level etc.

Measurement devices ;its basic working principles, control systems(for controlling these parameters) and its working in Industry.

Eg:- Room air conditioning systems needs to measure actual room temperature and change temperature of outlet airflow according to that input. The process of changing output (like humans brain) with respect to input is control.

Instrumentation is the study of different measurement devices, and different control mechanisms which control a process



Job after A. E. & I Engineering

Are eligible to get jobs in

- In all electronic oriented jobs
- Software jobs
- & In Instrumentation field
 - Industry
 - Biomedical



Job profile of A. E. & I Engineers

Pay.

- Highly paid Jobs- more than any other field. We have students with more than 25 lakhs/anum salary from AEI of SJCE

Job nature:

- prestigious and independent
Job is Very interesting as the job is not limited to certain character
- Challenging Job-
Will get enough and more chance to prove yourself

Future Prospects.

Automation is increasing day by day not only in process industry but also in other fields like automobile, building automation, hospital automation

Cannot stop the growth of Automation.



Why A. E. & I in S. J. C. E. T.?

- Only accredited Instrumentation Branch in Kerala by National Board of Accreditation(AICTE)
- Uncompromised Laboratory Facilities
- MOU with Yokogawa for Technical Knowledge Exchange in the field of Instrumentation
- Experienced and efficient faculties
- Innovative and Acclaimed Projects & Consultancies

