

8. Vacuum Technology: production, Measurements, Maintenance and Servicing of Vacuum Pumps.

CISST, S.P. University – Vallabh Vidyanagar is planning to start a certificate course on vacuum technology to cater the ever increasing need of skilled personals for vacuum and allied industries. It is intended to impart hands on experience for the participants to open, understand the mechanisms and re-install few vacuum pumps and a complete high vacuum system in addition to the lectures by eminent practicing academicians and scientists. Apart from this, the most common application of vacuum system for deposition of thin films and in cryogenic industry will also be demonstrated.

Course Content

Overview of vacuum and its applications, Generation of Vacuum, Measurement of Vacuum.

Selection of material for vacuum applications, Vacuum leakage: recognition and diagnostics.

Vacuum components and a complete vacuum system, Operation and maintenance of a complete vacuum system.

Thin film preparation by thermal evaporation technique, Vacuum for cryogenic applications.

Resource Persons: Subject experts from Different Institutes/university / industry will be engaged to meet the objectives of the programme and enrich participant's experience.

Target Audience: UG/PG students/Research scholars/young faculty members of Science and Engineering /Diploma colleges/Practicing Scientists/Industry sponsored persons may benefit from this training programme.

Benefits of the course

The course content is designed to meet today's academic/industrial demand to have skilled work force for managing different vacuum needs. Hands on experience for operation and maintenance of high vacuum systems. Participants to gain practical knowledge and skill to handle independently different vacuum components and the complete system. A special emphasis on cryogenic application will be made to address role and importance of vacuum in such applications.

Course Duration: 30 hours

Minimum No. Of Registration reqrd: 12

Contact details & Enquiry for Registration : cisst_head@spuvvn.edu, kdptflspu@yahoo.com