



CSIR– NIIST Thiruvananthapuram

(Under CSIR, Ministry of Science & Technology, Govt. of India)

Practical Fermentation Technology



Objective

To enhance the knowledge of the students as well as technical level employees working in companies/institutes which are practicing fermentation technology. To impart practical skills that would enable them to take knowledge based approach in operation and maintenance of fermenters and bioreactors. For students the course would enable them to excel in careers related to bio-process and fermentation industries.

Topics to be covered

- * Microbial growth kinetics.
- * Basic anatomy of a classical STR, parts identification and purpose.
- * Fermenter Instrumentation- Components of fermenter their roles and control, PID's and SCADA.
- * Concepts of mass and oxygen transfer, Cascade control in fermenters.
- * Practical sessions on:
 - Parallel fermenter
 - 2L STR
 - 20L STR with in-situ sterilization
 - 150 L Fermenter

Eligibility

Diploma in Chemical/Mechanical Engineering, B.Sc. in Biological Sciences/ B.Tech in Biotechnology, Biochemical /Chemical Engineering M.Sc in Biological Sciences/M Tech in Biotechnology, Biochemical /Chemical Engineering

Job Opportunities

- Any fermentation industries such as biopharma, biotech industries..
- Production managers in Biotech industries .
- STR(s) and Fermenter manufacturer (s) industries

Mode of Training:
Offline

Schedule:
August 2022

No. of Seats: 10

Duration: 15 days

Course Coordinator
Mr. Kiran Kumar

Course Fees:
Students: Rs.10,000/-
Sponsored*:Rs.15,000/-

Apply online:
<http://sdp.niist.res.in>

Payment through
Bank Transfer

The Director, CSIR-NIIST
(Regional Research Laboratory)
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*candidates sponsored by industries/ research organization/ colleges

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