



## Fermentation Technology Winter Training

NTHRYS provides Fermentation Technology Winter Training for interested candidates at its Hyderabad facility, Telangana. Please refer below for more details including Fee structures, Eligibility, Protocols and Modules etc.,. Please do call / message / whatsapp for more details on 9014935156 [India - +91]

**Eligibility:** BSc / BTech / MSc / MTech / MPhil / PhD in any Life Sciences studying or completed students

### Protocols / Techniques Covered

List of Protocols trained under this module

1. A brief exposure to Fermentation design & Fermenter components
2. Fermentation Media Preparations
  1. Microbiological Culture Media
    1. Synthetic Media, semisynthetic Media, Complex Media
    2. Media Components - Carbon, Nitrogen, Elements, Growth Factors, Inhibitors.
    3. Medium Formulation - Designing Media for specific Function
  2. Media Sterilizations
3. Preservation of Cultures for Fermentation Process
  1. Specialized Cell Banks for the Industry
  2. Cryopreservations
4. Handling Microbial Cell Cultures
  1. Bacteria
  2. Actinomycetes
  3. Filamentous Fungi
  4. Yeasts
  5. Plant Cell Cultures
  6. Mammalian Cell Cultures
5. Preparing Fermenter for Operation
6. Fermentation operation
  1. Batch Fermentation
    1. The Batch culture Growth Curve
    2. Fed Batch Fermentation

3. Fixed & Variable Fed-batch Fermentations
4. Control Techniques for Fed-batch control
2. Continuous Fermentation
  1. Control Techniques for Continuous Culture
  2. Running a Continuous Process
7. A brief insight into Fermentation Kinetics

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Fee details in Rs per student					
Fee	5 Days	10 Days	20 days	1 Month	45 Days
Individual	23600	24800	32000	40100	47900
Group 2 - 4	22300	22300	30400	38200	45600
Group 5 - 7	22000	22000	30000	37800	45100
Group 8 - 10	21800	21800	29700	37400	44700