



CSIR INTEGRATED SKILL INITIATIVE

CSIR-NCL SKILL DEVELOPMENT PROGRAM

"Food Safety And Quality Assessment"



ABOUT COURSE

The Food Safety and Quality Assessment course is designed to provide the practical exposure to the detection and assessment of microbial and chemical hazards in food and feed samples. The course emphasizes microbiological and molecular techniques for identifying bacteria, fungi, and yeast, along with advanced genomic approaches for accurate species and strain-level identification. It also introduces analytical methods for the detection of food contaminants such as mycotoxins, antibiotics, and pesticide residues. By integrating HACCP principles, regulatory compliance, and laboratory-based food safety assessments, the course equips participants with essential skills required to ensure food quality, safety, and public health protection.

COURSE CONTENT

This course focuses on the isolation and identification of microorganisms from contaminated food, using both phenotypic and molecular techniques for bacteria, fungi, and yeast. It covers 16S/18S rRNA gene sequencing and Oxford Nanopore sequencing. The course also explores chromatography principles, HPLC instrumentation, method development, validation, troubleshooting, and software for controlled operations. Practical training includes the quantitative assessment of mycotoxins, antibiotics, pesticide contamination, by-product analysis, method validation and statistical analysis to ensure food quality and safety.



FOR WHOM

- Students
- Academic Researchers
- Industrial Professionals

HOW TO APPLY

Application form is available at -
<http://www.ncl-india.org/files/SDP/Default.aspx>

PRIME INSTRUCTOR

Dr. Koteswara Rao
Principal Scientist
Biochemical Sciences Division
Microbiology & Molecular Biology
CSIR-National Chemical Laboratory

Dr. Mahesh S. Dharne
Chief Scientist &
Head National Collection of Industrial
Micro-organisms,
Microbiology, Genomics & Enzymes,
CSIR- National Chemical Laboratory

COURSE DETAILS

Duration- 2 Weeks
Dates- 09th February to 20th February 2026
No. of Seats- 15
Eligibility- Master's (completed/ pursuing)
in any science subject or equivalent

Course Fees -
Students - 8,260 /-
Faculty - 11,800 /-
Industrial Professional - 17,700 /-

(The fees stated include 18% GST)
Accommodation-2 week + 2 days with
affordable charges

Here is the reason why
WHY CHOOSE US



- More weightage on hands-on practice
- Interactive sessions
- Robust & sustainable training module
- Affordable fee structure
- Networking



<https://nclsdp.ncl.res.in/>



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