

Tentative Course Content of Training Programmes

CENTRE OF EXCELLENCE IN BIOTECHNOLOGY (CEBT)

M.P. Council of Science & Technology

Vigyan Bhavan, Nehru Nagar, Bhopal-462003

S. No.	Title of Training Programs	Contents
1.	Advance Training on “Application of Molecular Markers (RAPD) in Genetic Diversity”	<ul style="list-style-type: none">➤ Importance of sample collection➤ Isolation of DNA (plants, animals & microbes)➤ Qualitative and quantitative estimation of DNA using spectrophotometer➤ DNA amplification (RAPD-PCR)➤ Gel electrophoresis➤ Scoring of molecular weight using Gel Doc System➤ Biostatistical analysis of DNA banding (preparation of Binary matrix, Distance matrix and Dendrogram) using different soft wares.
2.	Training program on “Advances in Microbial Technology”	<ul style="list-style-type: none">➤ Isolation of microorganisms from Soil, Water and Air➤ Identification of bacteria using various biochemical tests using PIBWIN software➤ Mass production of ethanol / enzyme by fermentor➤ Identification of bacteria using 16S rRNA➤ Identification of fungus using microscope with SLR camera.
3.	Advance Training on “Application of HPTLC-: quantitative and qualitative estimation of secondary metabolites of plants ”	<ul style="list-style-type: none">➤ Introduction of HPTLC➤ Preparation of TLC plates➤ Preparation of sample➤ Preparation of mobile phase, Derivatization of compounds➤ Sample application by sample applicator on TLC plate➤ Development of plate using Automatic Developing Chamber (ADC)➤ Post development derivatization➤ Scanning of developed plate➤ Quantitative & qualitative estimation of target compound using their reference standard.

Centre of Excellence in Biotechnology
M.P. Council of Science & Technology
Vigyan Bhavan, Nehru Nagar, Bhopal-03

Application Form

Title of Training: _____

Preferred Month: 1. _____ 2. _____ 3. _____

Demand Draft No.: _____ **Date:** _____ **Bank:** _____

(All Information should be filled in Capital letters)

Name: _____

Father's Name: _____

Mother's Name: _____

Address: _____

_____ **Pin:** _____

City: _____ **State:** _____

Contact number: _____ **Mobil No.** _____

Date of Birth: _____ **Age:** _____

Nationality: _____ **Gender: Male / Female**

Category: Gen./ST/SC/OBC: _____ (Attach a self attested Photocopy of Certificate)

Domicile: _____ (Attach a self attested Photocopy of Certificate)

Educational Qualification from Higher Secondary onwards (Attach a self attested Photocopy of Certificate):

S. No.	Degree	School / College / University	Year of Passing	Grade

Present Status: _____

Declaration

I hereby declared that all above given information are correct and best to my knowledge and belief and I accept all terms and conditions decided by Council.

Date:

Place:

Candidate's Signature

Affix your
recent passport
size photograph
with duly
signature