



## MODULE DETAILS:

MODULE CODE	TOPICS	DAYS
<b>CHEMISTRY (R&amp;D)</b>		
CHEM-01	Basics in Research & Development chemistry	7
CHEM-02	Advanced Research & Development chemistry	20
CHEM-03	R&D chemistry instrumentation	10
<b>MICROBIOLOGY</b>		
MICRO-01	Basics in Microbiology techniques	10
MICRO-02	Advanced Microbiology techniques	20
MICRO-03	Basics in Fermentation techniques	10
MICRO QC-04	Advanced QC Microbiological techniques	20
<b>MOLECULAR BIOLOGY</b>		
MOL BIO-01	Basics in DNA techniques	5
MOL BIO -02	Advanced DNA techniques	15
MOL BIO -03	Blotting Techniques	10
MOL BIO -04	Polymerase chain reaction (PCR)	3
MOL BIO -05	Electrophoresis	5
MOL BIO -06	Recombinant technology/Bacterial transformation	15
MOL BIO -07	Basics in Molecular biology techniques	20
MOL BIO -08	Basics in RNA techniques	7
MOL BIO -09	Advanced Molecular biology techniques	30
MOL BIO -10	Advanced PCR Techniques	10

<b>PROTEIN &amp; ENZYME TECHNOLOGY</b>		
PROTEIN-01	Basics in Protein techniques	5
PROTEIN -02	Advanced protein techniques	20
PROTEIN -03	Basics in Enzyme techniques	7
PROTEIN -04	Advanced protein & enzyme techniques	30
PROTEIN -05	Chromatographic techniques	12
<b>BIOCHEMISTRY</b>		
BIOCHEM-01	Basics in Biochemical techniques	8
BIOCHEM -02	Advanced Biochemical techniques	15
BIOCHEM-03	Advanced Macromolecules techniques	45
<b>ANALYTICAL CHEMISTRY (QC)</b>		
CHEM QC-01	Basics in QC chemical techniques	15
CHEM QC -02	Advanced QC chemical techniques	30
CHEM QC -03	Analytical QC Instrumentation	7
CHEM QC-04	HPLC Demo	1
CHEM QC-05	HIGH PERFORMANCE LIQUID CHROMATOGRAPHY	2
CHEM QC -06	HPLC & UV-Visible spectra	3
CHEM QC -07	HPLC, UV-Visible spectra and FT-IR	5
<b>FOOD SCIENCE</b>		
FOODANA-01	Basics in Food Analysis	10
FOODANA -02	Advanced Food Analysis	25
FOODANA-03	Basics in water analysis	10
<b>IMMUNOLOGY</b>		
IMMUNO-01	Basics in immunology techniques	15
<b>PHYTOCHEMISTRY &amp; PIGMENTS</b>		
PHY-01	Basics in Phytochemical techniques	8

PHY-02	Advanced phytochemical techniques	20
PIM-03	Basic in pigment techniques	10
<b>PLANT TISSUE CULTURE</b>		
PLANTANA-01	Basics in plant tissue culture	15
<b>MERGE</b>		
MERGE-01	Designing by the candidates	OR
<b>PROJECTS</b>		
	Project	15-180

