

REFSYN MODULE (2015-16)



COURSE CODE	MODULE CODE	DAYS	TOPICS	FEES(₹)
R&D CHEMISTRY				
010001	CHEM-01	7	Basics in R&D chemistry	3,500
010002	CHEM-02	20	Advanced R&D chemistry	8,000
010003	CHEM-03	10	Advanced R&D chemistry instrumentation	5,000
MICROBIOLOGY				
011001	MICRO-01	10	Basics in Microbiology techniques	3,000
011002	MICRO-02	20	Advanced Microbiology techniques	6,000
011003	MICRO-03	10	Basics in Fermentation Techniques	NA
011004	MICRO QC-04	20	Advanced Microbial QC techniques	7,500
MOLECULAR BIOLOGY				
012001	MOL BIO-01	5	Basics in DNA techniques	3,000
012002	MOL BIO -02	15	Advanced DNA techniques	NA
012003	MOL BIO -03	10	Blotting techniques	5,000
012004	MOL BIO -04	3	Basics in PCR	2,000
012005	MOL BIO -05	5	Electrophoresis Techniques	3,500
012006	MOL BIO -06	15	Recombinant DNA technology	6,000
012007	MOL BIO -07	20	Basics in Molecular biology techniques	15,000
012008	MOL BIO -08	7	Basics in RNA techniques	3,500
012009	MOL BIO -09	30	Advanced Molecular biology techniques	24,000
012010	MOL BIO -10	10	Advanced PCR techniques	8,000
PROTEIN& ENZYME TECHNOLOGY				
013001	PROTEIN-01	5	Basics in Protein techniques	3,000
013002	PROTEIN -02	20	Advanced protein techniques	11,000
013003	PROTEIN -03	7	Basics in Enzyme technology	4,500
013004	PROTEIN -04	30	Advanced protein & enzyme techniques	15,000
013005	PROTEIN -05	12	Chromatography	8,000
BIOCHEMISTRY				
014001	BIOCHEM-01	8	Basics in Biochemical techniques	5,000
014002	BIOCHEM -02	15	Advanced Biochemical techniques	8,500
014003	BIOCHEM -03	45	Advanced Macromolecules techniques	35,000
ANALYTICAL CHEMISTRY (QC)				
015001	CHEM QC-01	15	Basics in QC chemical techniques	8,000
015002	CHEM QC -02	30	Advanced QC chemical techniques	14,000
015003	CHEM QC -03	7	Analytical QC instrumentation	5,000
015004	CHEM QC -04	1	HPLC Demo	1,500
015005	CHEM QC -05	2	High Performance Liquid Chromatography	3,500
015006	CHEM QC -06	3	HPLC & UV-Visible spectra photometer	4,000
015007	CHEM QC -07	5	HPLC, UV-Visible spectra photometer & FT-IR	4,500
FOOD SCIENCE				
016001	FOODANA-01	10	Basics in food analysis	3,500
016002	FOODANA-02	25	Advanced food analysis	7,000
016003	FOODANA-03	10	Basics in water analysis	5,000
IMMUNOLOGY				
017001	IMMUNO-01	15	Basics in Immuno techniques	3,500
PHYTOCHEMISTRY & PIGMENTS				
018001	PHY-01	8	Basics in phytochemical techniques	4,000
018002	PHY-02	20	Advanced phytochemical techniques	12,000
018003	PIM-03	10	Basics in pigment techniques	7,500
MERGE				
020001	MERGE-01	-	Designing by candidates	OR

Note: For brief of each module is available in our website www.refsynbio.com or contact 9488232274/75 or refsynbpl@gmail.com

- No registration fee
- 5 & above Students from same college will get 15% discount on course fees.
- Above 10 students from same college will get 25% discount on course fees.

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REFSYN Research Lab Facilities:

DEPARTMENT	EQUIPMENTS
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Analytical chemistry(QC)	HPLC, UV-VIS Spectrophotometer, Polarimeter, Disintegration Apparatus, Karl-Fischer titrator, Friability apparatus, Viscometer, Bulk density apparatus, Ultrasonicator, Hot air Oven, Analytical balance, pH meter, Muffle furnace, Tablet hardness tester, Thickness tester, Nephelometer, Conductivity meter, IR Moisture balance.
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Chemistry (R&D)	Melting point apparatus, Magnetic stirrers, Hot plate, Distillation Unit, Heating mantle, Roteva, UV chamber, Chromatography accessories like Column & TLC.
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Molecular biology	PCR Machine, Gel Documentation, Agarose Gel Electrophoresis equipment, Immuno electrophoresis apparatus, Blotting apparatus, pH meter, Mini centrifuge, Deep freezer, Dry bath, Water bath, Portable balance, Gel rocker.
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Microbiology	Laminar Air Flow, Rotary shaker with incubator, Autoclave, Bacteriological Incubator, BOD Incubator, Colony Counter, Hot Air Oven, Microscope, Portable balance, pH meter and water bath.
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Biochemistry	SDS-PAGE gel electrophoresis, Colorimeter, pH meter, UV-VIS Spectrophotometer, Portable Balance, Micro centrifuge, Chromatographic accessories like Paper, TLC, Affinity, Ion-exchange, gel filtration and HPLC
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Food analysis	Colorimeter, pH meter, UV-VIS Spectrophotometer, Portable Balance, TLC, Column Chromatography, HPLC, Soxhlet apparatus, Kjeldahl digestion & distillation apparatus, Muffle furnace, Hot air oven, IR Moisture balance, Bunsen Burner
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Herbal analysis	Soxhlet extractor, pH meter, UV-VIS Spectrophotometer, Portable Balance, TLC, Column Chromatography, HPLC, Hot air oven,
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