



BENGAL SCHOOL OF TECHNOLOGY

AUTONOMOUS

Estd. by Supreme Educational Development and Charitable Organization (SEDCO)

Recognised by UGC & included u/s 2(f) of UGC Act 1956

Approved by Pharmacy Council of India, New Delhi

Affiliated to: Maulana Abul Kalam Azad University of Technology (MAKAUT) &
West Bengal State Council of Technical and Vocational Education and Skill Development (WBSCT&VE&SD)

Accredited by NAAC with "A" Grade, NBA for B. Pharm & QCI

Lesson Plan

Class: B Pharm 5th Semester

Session: 2026-27

Date of Commencement of Session 30/07/2026

Subject Name: Medicinal Chemistry II

Subject code: PT-513

Faculty In charge: Dr Suchandra Goswami and Mr. Biswanath Ghosh

Schedule of allotted class work (w.e.f)

Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Time/period					3.25-PM - 4.25PM	
Section A						
Section B	-				12.40PM 1.40PM	

Available Periods/week 2_ Available periods in the total semester _____ Extra Classes _____

Guest Lectures planned if any
with justification _____

Scope & Objective of the course:___ This subject deals with the application of instrumental methods in qualitative and

quantitative analysis of drugs. This subject is designed to impart a fundamental knowledge on the principles and instrumentation of spectroscopic and chromatographic technique. This also emphasizes on theoretical and practical knowledge on modern analytical instruments that are used for drug testing.

Objectives: Upon completion of the course the student shall be able to

1. Understand the interaction of matter with electromagnetic radiations and its applications in drug analysis
2. Understand the chromatographic separation and analysis of drugs.
3. Perform quantitative & qualitative analysis of drugs using various analytical instruments

Reading materials:

A. Text Books

Sl. No.	Name of the Text Book(s)	Author	Edition	Publisher	Accession No.	Rack No
1	Medicinal Chemistry	Algoraswamy Sriram	Vol I			
	Medicinal Chemistry	Wilson & Gisvold	-			
	Medicinal Chemistry	Foye's				
	Principles of Medicinal Chemistry	Patrick				

B. Reference Books

Sl. No.	Name of the Text Book(s)	Author	Edition	Publisher	Accession No.	Rack No
4.						
5.						
6.						
7.						

C. Journals / Website/Any other resources

Sl. No.	Name of the journal (s)/website/others	Source	Vol. no.	Month & Year

Daily Teaching Schedule for UNIT-II

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
1.	21/08/26	1	Introduction of Vasodilators: Synthesis Nitroglycerin*, Isosorbide dinitrite*,	Power point Digital pen/chalk duster	1-7
2.	28/08/26	2	Classification of Anti-anginals Structures tetranitrate, Amyl nitrite, Pentaerythritol Dipyedamol	Power point Digital pen/chalk duster	1-7
3.	04/09/25	3	Diuretic Carbonic anhydrase inhibitors: Acetazolamide*, Furasemide Thiazides SAR	Power point Digital pen/chalk duster	1-7
4.	11/09/26	4	Anti-hypertensive Agents Synthesis of Methyldopate hydrochloride,*,	Power point Digital pen/chalk duster	1-7
5.	18/09/26	5	Structure of Clonidine hydrochloride, Guanethidine monosulphate, Guanabenz acetate, Sodium nitroprusside, Diazoxide	Power point Digital pen/chalk duster	1-7

Daily Teaching Schedule for UNIT-IV

1.	25/09/26		Structure of Testosterone, Nandralone, Progestrones		
2.	9/10/26		Drugs for erectile dysfunction: Sildenafil, Tadalafil		
3.	16/10/26		SAR of corticosteroids, Cortisone, Hydrocortisone, Prednisolone, Betamethason		
4.	06/11/26		Structure of Oestriol, Oestradiol, Diethyl stilbestrol		
5.	13/11/26		SAR of corticosteroids, Cortisone, , Betamethason		
6.					

Signature of Faculty Biswanath Ghosh