



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: 2026-2027

Date of Commencement of Session: 30th July 2026

Subject Name: Medicinal Chemistry-II

Subject code: PT 513B

Faculty In charge: Dr. Sasmita Dash

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

Days	Monday	Tuesday	Wednesday	Thursday	Friday
Time/period Section A	12.40-1.40 PM		2.25-3.25 PM		
Time/period Section B	3.25-4.25 PM		4.25-5.25 PM		

Available Periods/week 4 Available periods in the total semester Extra Classes

Guest Lectures planned if any with justification NIL

Scope & Objective of the course: This subject is designed to impart fundamental knowledge on the structure, chemistry and therapeutic value of drugs. The subject emphasizes on structure activity relationships of drugs, importance of physicochemical properties and metabolism of drugs. The syllabus also emphasizes on chemical synthesis of important drugs under each class. Upon completion of the course the student shall be able to understand the chemistry of drugs with respect to their pharmacological activity, understand the drug metabolic pathways, adverse effect and therapeutic value of drugs, know the Structural Activity Relationship (SAR) of different class of drugs, write the chemical synthesis of some drugs.

Reading materials:

A. Text Books

Sl. No.	Name of the Text Book(s)	Author	Edition	Publisher	Accession No.	Rack No
1	Medicinal Chemistry	Ashutosh Kar	Fourth	New Age International Publishers	1452	49C
2	Textbook of Medicinal Chemistry	V. Alagarsamy	Third	CBS Publishers & Distributors Pvt Ltd	6984	47C

B. Reference Books

Sl. No.	Name of the Text Book(s)	Author	Edition	Publisher	Accession No.	Rack No
1	Foye's Principles of Medicinal Chemistry.	Thomas L. Lemke, David A. Williams	Sixth	Lippincott Williams & Wilkins	2712	48G
2	Wilson and Giswold's Organic medicinal and Pharmaceutical Chemistry.	John M. Beale, John H. Block	Twelfth Edition	Lippincott Williams & Wilkins	1343	49A

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-I

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
1	3/8/26	Monday	Histamine, Receptors and their distribution in human body	PPT	A1, A2, B1, B2
2	5/8/26	Wednesday	H1-antagonists: SAR of classical H1 antagonists	PPT	A1, A2, B1, B2
3	10/8/26	Monday	H1-antagonists: Diphenhydramine hydrochloride, Doxylamines succinate, Clemastine fumarate, Tripelenamine hydrochloride, Meclizine hydrochloride, Buclizine hydrochloride,	PPT	A1, A2, B1, B2
4	12/8/26	Wednesday	Chlorpheniramine maleate, hydrochloride, Triprolidine hydrochloride, Promethazine hydrochloride, Trimeprazine tartrate, Cyproheptadine hydrochloride,	PPT	A1, A2, B1, B2





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5	17/08/26	Monday	Azatidine maleate, Astemizole, Loratadine, Cetirizine, Levocetrazine Cromolyn sodium	PPT	A1, A2, B1, B2
6	19/08/26	Wednesday	H2-antagonists: Cimetidine, Famotidine, Ranitidin.	PPT	A1, A2, B1, B2
7	24/08/26	Monday	Gastric Proton pump inhibitors: Omeprazole, Lansoprazole, Rabeprazole, Pantoprazole	PPT	A1, A2, B1, B2
8	2/09/26	Wednesday	Anti-neoplastic agents: Alkylating agents: Meclorothamine, Chlorambucil, Busulfan, Thiotepe	PPT	A1, A2, B1, B2
9	7/09/26	Monday	Antimetabolites: Mercaptopurine, Thioguanine, Fluorouracil	PPT	A1, A2, B1, B2
10	9/09/26	Wednesday	Antimetabolites: Floxuridine, Cytarabine, Methotrexate, Azathioprine	PPT	A1, A2, B1, B2
11	14/9/26	Monday	Antibiotics: Dactinomycin, Daunorubicin, Doxorubicin, Bleomycin	PPT	A1, A2, B1, B2
12	16/09/26	Wednesday	Antibiotics: Dactinomycin, Daunorubicin, Doxorubicin, Bleomycin	PPT	A1, A2, B1, B2
13	21/09/26	Monday	Plant products: Etoposide, Vinblastin sulphate, Vincristin sulphate Miscellaneous: Cisplatin, Mitotane.	PPT	A1, A2, B1, B2

Daily Teaching Schedule for UNIT-II

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
			By Mr. Biswanath Ghosh		

Daily Teaching Schedule for UNIT-III

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
			By Mrs. Sayani Paul		

Daily Teaching Schedule for UNIT-IV

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
			By Mr. Biswanath Ghosh		

Daily Teaching Schedule for UNIT-V

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
1	23/09/26	Wednesday	Insulin and its preparation	PPT	A1, A2, B1, B2
2	28/09/26	Monday	Introduction of Antidiabetic drugs	PPT	A1, A2, B1, B2
3	30/09/26	Wednesday	Antidiabetic drugs (Steps, Classification, MOA)	PPT	A1, A2, B1, B2
4	5/10/26	Monday	Antidiabetic drugs (Synthesis, SAR)	PPT	A1, A2, B1, B2
5	7/10/26	Wednesday	Synthesis of Antidiabetic drugs	PPT	A1, A2, B1, B2
6	12/10/26	Monday	Synthesis of Antidiabetic drugs	PPT	A1, A2, B1, B2
7	14/10/26	Wednesday	Synthesis of Antidiabetic drugs	PPT	A1, A2, B1, B2
8	28/10/26	Wednesday	Synthesis of Antidiabetic drugs	PPT	A1, A2, B1, B2
9	2/11/26	Monday	Introduction and classification of Local anesthetic drugs	PPT	A1, A2, B1, B2
10	4/11/26	Wednesday	Classification and SAR of Local anesthetic drugs	PPT	A1, A2, B1, B2
11	18/11/26	Wednesday	Classification and SAR of Local	PPT	A1, A2, B1, B2



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			anesthetic drugs		
12	23/11/26	Monday	Drugs used as Local anesthetic	PPT	A1, A2, B1, B2
13	25/11/26	Wednesday	Drugs used as Local anesthetic	PPT	A1, A2, B1, B2
Grand total number of classes planned for the semester: 26					

Dr. Sasmita Dash
(Associate Professor)