



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

Session: 2026-27

Date of Commencement of Session: 30/07/2026

Subject Name: Pharmaceutical Microbiology-Theory

Subject code: PT-319

Faculty In charge: Mr. Mainak Mukherjee

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

Days	Monday	Tuesday	Wednesday	Thursday	Friday
Time/period Section A					09:40am to 10:40am
Section B					11:40am to 12:40pm

Available Periods/week _____ 1 _____ Available periods in the total semester _____ Extra Classes _____

Guest Lectures planned if any with justification _____

Scope & Objective of the course: This subject covers the study of microorganisms of pharmaceutical importance, including their identification, cultivation, preservation, and applications in the production of alcohol, antibiotics, vaccines, vitamins, enzymes, and other pharmaceutical products. It also includes sterilization, sterility testing, microbiological standardization, and cell culture technology. Upon completion of this subject, students will understand the identification, cultivation, and preservation of microorganisms; the principles of sterilization and sterility testing; microbiological standardization of pharmaceuticals; and the applications of cell culture technology in the pharmaceutical industry.

Reading materials:

A. Text Books

Sl. No.	Name of the Text Book(s)	Author	Edition	Publisher	Accession No.	Rack No
1	A Textbook of Pharmaceutical Microbiology	K. Das	2nd	Nirali Prakashan	8422	R78
2	A Textbook of Microbiology	P. Chakrabarty	3rd	New Central Book Agency	6745	R09

B. Reference Books

Sl. No.	Name of the Text Book(s)	Author	Edition	Publisher	Accession No.	Rack No
1	Essentials of Microbiology.	S Ranjan, R. S. Christy	1st	CBS Publisher and Distributors	8382	R77
2	Pharmaceutical Microbiology	N. K. Jain	3rd	Vallabh Prakashan	9987	R10

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 (by Dr. Raja Majumder)

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
-	-	-	-	-	-

Daily Teaching Schedule for UNIT-II (by Mr. Prasiddha Pal)

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
-	-	-	-	-	-

Daily Teaching Schedule for UNIT-III (by Dr. Raja Majumder)

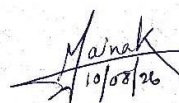
Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
-	-	-	-	-	-

Daily Teaching Schedule for UNIT-IV

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
1	31/07/2026	Friday	Designing of aseptic area	Smart Class	B2
2	07/08/2026	Friday	Laminar flow equipments	Smart Class	B1
3	14/08/2026	Friday	Study of different sources of contamination in an aseptic area	Smart Class	B2
4	21/08/2026	Friday	Methods of prevention of contamination in an aseptic area	Smart Class	B2
5	11/09/2026	Friday	Clean area classification	Smart Class	B2
6	18/09/2026	Friday	Principles of different microbiological assay	Smart Class	B1
7	25/09/2026	Friday	Methods of different microbiological assay	Smart Class	B1
8	09/10/2026	Friday	Methods for standardization of antibiotics	Smart Class	B1
9	30/10/2026	Friday	Methods for standardization of vitamins B12	Smart Class	B1
10	06/11/2026	Friday	Interactive discussion on aseptic area design, contamination control, microbiological assay, and standardization of antibiotics and vitamins B12.	Smart Class	B1

Daily Teaching Schedule for UNIT-V (by Mr. Prasiddha Pal)

Sl. No.	Date	Day	Title to be covered	Teaching Pedagogy / T.L.P.	Suggested Knowledge Resources
-	-	-	-	-	-
Grand total number of classes planned for the semester: 10					



Mr. Mainak Mukherjee
Assistant Professor