



NAAC- B⁺

Course outcomes

Name of the course: Pharmaceutical Engineering

Course Code: BP308P

Semester:III

Class: S.Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP308PC01	To study different unit operation process like heat transfer, distillation, mixing, drying, size reduction & sieving techniques.
BP308PC02	Discuss the concept of filtration & evaporation & investigate the factors affecting on rate of filtration & evaporation.
BP308PC03	Demonstrate different equipments used in pharmaceutical unit operation.

CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP308PC01	3	3	1	2	2	2	1	1	2	2	2
BP308PC02	3	3	1	2	2	2	1	1	2	2	2
BP308PC03	3	3	1	2	2	2	1	1	2	2	2
Average	3	3	1	2	2	2	1	1	2	2	2
Average Roundup	3	3	1	2	2	2	1	1	2	2	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

(Course code)	(Course name)
BP307PC01	Demonstrate equipment used in Pharmaceutical Microbiology
BP307PC02	Prepare & sterilize culture media with glasswares
BP307PC03	Execute methods of identification, isolation, cultivation and preservation of Bacteria.
BP307PC04	Perform sterility testing of pharmaceutical products & Carry out microbiological standardization of Pharmaceuticals.

POs	Pharmacy Knowledge	Planning Abilities	Problem analysis	Modern tool usage	Leadership skills	Professional Identity	Pharmaceutical Ethics	Communication	The Pharmacist and society	Environment and sustainability	Life-long learning
CO to PO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP307PC01	3	2	2	2	3	2	1	3	1	3	2
BP307PC02	3	3	2	3	3	2	1	2	1	2	1
BP307PC03	3	3	3	3	3	2	1	2	2	2	1
BP307PC04	3	3	3	3	3	2	1	2	1	2	2
Average	3	2.75	2.5	2.75	3	2	1	2.25	1.25	2.25	1.5
Average Roundup	3	3	3	3	3	2	1	2	1.25	2.25	1.5