

Academic Calendar Report

Dr. Hamid Ali Qazi (Professor)

Course:	Pharmacology and Therapeutics-IA	Program:	PHARM-D
Batch:	2024-25	Semester/Year:	2nd Year - 3rd Semester

S.No.	Date	Week	Teacher	Description
1	12/01/2026	Week 1	Dr. Hamid Ali Qazi	GENERAL PHARMACOLOGY: a) Pharmacology: Definition of Pharmacology, history and its various branches. Definition of Drug and its various sources.
2	19/01/2026	Week 2	Dr. Hamid Ali Qazi	b) Routes of drug administration, advantages and disadvantages.
3	26/01/2026	Week 3	Dr. Hamid Ali Qazi	c) Pharmacokinetics: Drug solubility and passage of drug across the biological membranes. Absorption
4	02/02/2026	Week 4	Dr. Hamid Ali Qazi	Distribution, metabolism and elimination of drugs and factors affecting them.
5	09/02/2026	Week 5	Dr. Hamid Ali Qazi	Various pharmacokinetic parameters including volume of distribution (V.d), clearance (Cl), Biological half-life (t _{1/2β}) Bioavailability and various factors affecting it.
6	16/02/2026	Week 6	Dr. Hamid Ali Qazi	Dose, Efficacy and Potency of drugs. Hypersensitivity and Idiosyncratic reactions, drug tolerance and dependence. Drug interactions. Plasma protein binding.
7	23/02/2026	Week 7	Dr. Hamid Ali Qazi	d) Pharmacodynamics: How drugs act? Receptors and their various types with special reference to their molecular structures. Cell surface receptors, signal transduction by cell surface receptors.
8	02/03/2026	Week 8	Dr. Hamid Ali Qazi	Signaling Mediated by intra cellular receptors, target cell and hyper sensitization, Pharmacological effects not Mediated by receptors (for example anesthetics and cathartics) Ion channel, enzymes, carrier proteins
9	09/03/2026	Week 9	Dr. Hamid Ali Qazi	Drug receptor interactions and theories of drug action. Agonist, antagonist, partial agonist, inverse agonist. Receptors internalization and receptors co-localization. Physiological Antagonism, Pharmacological Antagonism (competitive and non-competitive), Neutralization Antagonism
10	16/03/2026	Week 10	Dr. Hamid Ali Qazi	Neurotransmission and neuro-modulation. Specificity of drug action and factors modifying the action & dosage of drugs. Median lethal dose (LD:50), Median effective dose (ED:50) and Therapeutic Index, Dose-response relationships.
11	23/03/2026	Week 11	Dr. Hamid Ali Qazi	2. DRUGS ACTING ON AUTONOMIC NERVOUS SYSTEM (ANS): a. Organization of ANS its

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				subdivisions and innervations. b. Neurotransmitters in ANS, their synthesis, release and fate. c. Sympathetic agonists: Catecholamines and Noncatecholamines.
12	30/03/2026	Week 12	Dr. Hamid Ali Qazi	d. Sympathetic antagonists: Adrenergic receptor Blockers and neuron blockers. e. Parasympathetic (Cholinergic) agonists and cholinesterase enzyme inhibitors (anticholinesterases) Parasympathetic antagonists. f. Ganglion stimulants and Ganglion blockers g. Neuromuscular Blockers
13	06/04/2026	Week 13	Dr. Hamid Ali Qazi	3. DRUGS ACTING ON GASTROINTESTINAL TRACT: a. Emetic and anti-emetics b. Purgatives c. Anti-diarrheal agents
14	13/04/2026	Week 14	Dr. Hamid Ali Qazi	d. Treatment of Peptic & duodenal ulcer: Antacids, H ₂ -Receptor antagonists, antimuscarinic agents, proton pump inhibitors, prostaglandin antagonists, gastrin receptor antagonist and cytoprotective agents e. Drug treatment of chronic inflammatory bowel diseases f. Drugs affecting bile flow and Cholelithiasis

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