



**ARKA JAIN  
University**  
Jharkhand

## **SCHOOL OF PHARMACY CIRCULAR**

**No: AJU/SP/025/23**

**Date 28.01.2023**

It is hereby notified that all the students of B. Pharm 2<sup>nd</sup> Sem (2022 admission Batch), B. Pharm 4<sup>th</sup> Sem (2021 admission Batch) need to present their seminar before 15<sup>th</sup> June 2023 and all the students of B. Pharm 6<sup>th</sup> Sem (2020 admission Batch) and B. Pharm 8<sup>th</sup> Sem (2019 admission Batch) before 15<sup>th</sup> April 2023. Find the topic of seminar attached to the circular.

**Dean**

**School of Pharmacy**

**ARKA JAIN University Jharkhand**  
**School of Pharmacy**

**Copy to**

Vice Chancellor

Office of the Registrar

Director of Campus and DSW

IQAC

ERP Coordinator

ERP In-charge

Website In-charge

Office file

Student Whatsapp group





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## SEMESTER-WISE SEMINAR TOPICS

Semester	Subject	Seminar topics
ii	Human Anatomy and Physiology II	Organization of CNS
		Mechanism of Respiratory System
		Reproductive System
		Thyroid gland and Pancreas
ii	Pharmaceutical Organic Chemistry I	Substitution reaction
		Isomerism
		Addition reaction
		Elimination reaction
ii	Biochemistry	Carbohydrate metabolism
		Diabetes mellitus
		Disorders of lipid metabolism
		Bioenergetics
ii	Pathophysiology	Tuberculosis
		Leprosy
		Hypertension
		Angina pectoris
ii	Computer Applications in Pharmacy	Introduction to HTML
		Drug information storage and retrieval
		Lab-diagnostic System
		Impact of Bioinformatics in Pharmaceutical Science
ii	Environmental sciences	Air pollution
		Aquatic ecosystem
		Food chain & food web
		Water pollution
iv	Pharmaceutical Organic Chemistry III	Stereoisomerism
		E/Z Configuration
		Heterocyclic compounds
		Geometrical Isomerism
iv	Medicinal Chemistry I	Drug Metabolism
		Drug absorption and distribution
		Adrenergic Neurotransmitters
		Adrenergic Antagonists
iv	Physical Pharmaceutics II	Optical and electrical properties of colloids
		Non- Newtonian flow
		Plastic and Elastic deformation
		First order kinetics
iv	Pharmacology I	Antiepileptic drugs
		Antiparkinsonian drugs
		Antidepressant drugs
		Local anaesthetic agents
iv	Pharmacognosy and Phytochemistry I	Physical evaluation of drugs
		Initiation and maintenance of callus culture
		Conservation of medicinal plants
		Techniques of Cryopreservation





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vi	Medicinal Chemistry III	Tetracycline antibiotics
		Antitubercular drugs
		Antimalarial drugs
		Antifungal antibiotics
Vi	Pharmacology III	Anti-cancer drugs
		Anti-asthmatic drugs
		Anti-tuberculosis drugs
		Toxicology
Vi	Herbal Drug Technology	Biodynamic agriculture
		Herbal cosmetics
		Regulatory issues for Herbal drugs
		Herbal formulations
Vi	Biopharmaceutics and Pharmacokinetics	Enhancement of bioavailability
		Pharmacokinetic models
		Protein binding
		Non-linear kinetics
Vi	Pharmaceutical Biotechnology	PCR and their application
		Western blotting
		Recombinant Vaccine
		Vector
vi	Quality Assurance	International Organization for Standardization (ISO)
		ICH Stability testing
		Quality control test for containers
		Good Laboratory Practice (GLP)
viii	Biostatistics and Research Methodology	Measures of central tendency
		Measures of dispersion
		Probability & Random variable
		Probability distributions
viii	Social and preventive pharmacy	Concept of Health and Hygiene
		Preventive medicine
		National health programme
		Health education in urban area
viii	Cosmetic Science	Role of Herbs in Cosmetics
		Principles of cosmetic evaluation
		Principles of formulation & building blocks of haircare products
		Analytical cosmetics
viii	Pharmacovigilance	Introduction to adverse drug reaction
		ICH guidelines for Pharmacovigilance
		Vaccine safety surveillance
		Information resources in Pharmacovigilance
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28/01/23

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