

MONTHLY TEACHING PLAN (2024-25)

MEHR CHAND MAHAJAN DAV COLLEGE FOR WOMEN SECTOR 36-A, CHANDIGARH

Monthly Teaching Plans – Odd Semester (Semester V) Session 2024-25

Name of the Teacher/s: Dr. Purnima Bhandari

Department: Botany

Class: B.Sc. Medical III year

Subject: Paper A (Plant Physiology I; Subject Code: 0454)

Sections: Single

Sr.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken
	From	To		
July	15.07.2024	30.07.2024	Plant Water Relations: Importance of water to plant life; physical properties of water	PowerPoint presentations, group discussion, Assignments.

Departmental Meeting held on 30.07.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans

August	01.08.2024	30.08.2024	Plant Water Relations: Imbibition, Diffusion, osmosis, plasmolysis and deplasmolysis, concept of osmotic potential, water potential, and pressure potential; Absorption of water, active and passive mechanism of water absorption; transport of water, mechanism, and theories to explain ascent of sap; transpiration types.	PowerPoint presentations, group discussion.
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Departmental Meeting held on 31.08.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.

September	01.09.2024	30.09.2024	Plant Water Relations: Mechanism of opening and closing of stomata, mechanism of transpiration, factors affecting transpiration,	PowerPoint presentations, group discussion.
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MONTHLY TEACHING PLAN (2024-25)

Sr.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken
	From	To		
			anti-transpirants; Mineral nutrition: Hydroponics and its importance; essential macro-and micro elements, essentiality criteria, deficiency symptoms, and their role.	
Departmental Meeting held on 30.9.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.				
October	01.10.2024	31.10.2024	MST Examinations - 1.10.2024-10.10.2024 Mineral uptake; mechanism of mineral uptake (active, passive absorption and modern concepts); Nitrogen Metabolism: Biological nitrogen fixation; Importance of nitrate reductase and its regulation; ammonia assimilation. Lipid Metabolism: Structure and function of lipids; β - oxidation; saturated and unsaturated fatty acids.	Power point presentation, group discussion, assignments, Flipped classroom method.
Departmental Meeting held on 31.10.2024 to review the progress of syllabus as per lesson plans				
November	01.11.2024	18.11.2024	Proteins: Classification, role, and structure (primary, secondary and tertiary) of proteins. Basics of enzymology: Discovery and nomenclature; classification, structure, properties, factors	Discussion and assignments

MONTHLY TEACHING PLAN (2024-25)

Sr.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken
	From	To		
			affecting enzyme activity, mechanism of enzyme action. Revision & Test	
Departmental Meeting held on 18.11.2024 to review the progress of syllabus and assessments of students.				
End Semester Examinations from 19.11.2024 – 26.12.2024 Semester Vacation – Winter Break – 27.12.2024 – 09.01.2025				

MONTHLY TEACHING PLAN (2024-25)

MEHR CHAND MAHAJAN DAV COLLEGE FOR WOMEN SECTOR 36-A, CHANDIGARH

Monthly Teaching Plans – Odd Semester (Semester V) Session 2024-25

Name of the Teacher/s: Dr. Jasleen Kaur

Department: Botany

Class: B.Sc. Medical III year

Subject: Paper B (Plant Ecology)

Sections: Single

Sr.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken
	From	To		
July	15.07.2024	30.07.2024	Definition, scope, relationship with other sciences.	PowerPoint presentations, group discussion, Assignments.
Departmental Meeting held on 30.07.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
August	01.08.2024	30.08.2024	Plant Environment: Climatic, edaphic, topographic and biotic factors affecting growth and distribution of plants.	PowerPoint presentations, group discussion.
Departmental Meeting held on 31.08.2024 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.				
September	01.09.2024	30.09.2024	Ecosystem : Concept, structure; abiotic and biotic components; trophic levels, food chain, food web, ecological pyramids, energy flow, biogeochemical cycles of carbon, nitrogen and water.	
October	01.10.2024	31.10.2024	Applied Ecology: a) Air, water and soil pollution and their control.	
Departmental Meeting held on 31.10.2024 to review the progress of syllabus as per lesson plans				
November	01.11.2024	18.11.2024	b) Conservation and management of natural resources. (renewable and Non-renewable)	Discussion and assignments

MONTHLY TEACHING PLAN (2024-25)

Sr.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken
	From	To		
			Revision & Test	
Departmental Meeting held on 18.11.2024 to review the progress of syllabus and assessments of students.				
End Semester Examinations from 19.11.2024 – 26.12.2024				
Semester Vacation – Winter Break – 27.12.2024 – 09.01.2025				

MONTHLY TEACHING PLAN (2024-25)

MEHR CHAND MAHAJAN DAV COLLEGE FOR WOMEN SECTOR 36-A, CHANDIGARH

Monthly Teaching Plans – Even Semester (Semester VI) Session 2024-25

Name of the Teacher/s: Dr. Purnima Bhandari

Department: Botany

Class: B.Sc. Medical III year

Subject: Paper A (PLANT PHYSIOLOGY-II; Subject Code: 0550)

Sections: Single

Sr. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
January	10.01.2025	31.01.2025	Photosynthesis: Significance, historical aspect; photosynthetic pigments; action spectra and enhancement effects; concept of two photosystems, cyclic and non-cyclic photophosphorylation. Photosynthesis: Calvin cycle; C4 pathway; CAM plants; photorespiration; factors affecting photosynthesis; transport of organic substances:	Power point presentation, group discussion, assignments.

Departmental Meeting held on 31.01.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.

February	01.02.2025	28.02.2025	Photosynthesis (Contd): Mechanism of phloem transport, source-sink relationship, factors affecting translocation. Respiration: ATP – The biological energy currency; aerobic and anaerobic respiration;	Power point presentation, group discussion, assignments.
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MONTHLY TEACHING PLAN (2024-25)

Sr. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
			<p>Krebs cycle; electron transport mechanism (Chemi-osmotic theory); redox potential; oxidative phosphorylation; pentose phosphate pathway; respiratory quotient.</p> <p>Growth and development:</p> <p>Definitions; phases of growth and development; kinetics of growth, factors affecting growth.</p>	

Departmental Meeting held on 28.02.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.

March	1.03.2025	31.03.2025	<p>MST Examinations - 05.03.2025-13.03.2025.</p> <p>Growth and development:</p> <p>Plant movements; the concept of photoperiodism, physiology of flowering; florigen concept; roles of plant hormones— auxins, gibberellins, cytokinin, abscisic acid and ethylene, history of their discovery.</p>	<p>Power point presentation, group discussion, assignments.</p>
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Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans

April	01.04.2025	26.04.2025	<p>Biotechnology: Functional definition; basic aspects of plant tissue culture, its applications and somatic hybridization.</p> <p>Revision and tests</p>	<p>Power point presentation, group discussion, assignments.</p>
Departmental Meeting held on 14.04.2025 to review the progress of syllabus and assessments of students.				

MONTHLY TEACHING PLAN (2024-25)

Sr. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*		
	From	To				
Practical Examinations: 15.04.2025-24.04.2025						
End Semester Examinations from 28.04.2025-04.06.2025						
Semester Vacation – Summer Break – 01.06.2025-13.07.2025						

MONTHLY TEACHING PLAN (2024-25)

MEHR CHAND MAHAJAN DAV COLLEGE FOR WOMEN SECTOR 36-A, CHANDIGARH

Monthly Teaching Plans – Even Semester (Semester VI) Session 2024-25

Name of the Teacher/s: Dr. Jasleen Kaur

Department: Botany

Class: B.Sc. Medical III year

Subject: Paper B (Economic Botany)

Sections: Single

Sr. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
January	10.01.2025	31.01.2025	Crop production: Area of cultivation, soil requirement, cultivation practices and high yielding varieties of : i) Cereals (Wheat, Rice and Maize) ii) Fibres (Cotton) iii) Vegetables (Potato)	Power point presentation, group discussion, assignments.
Departmental Meeting held on 31.01.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.				
February	01.02.2025	28.02.2025	Crop production: Area of cultivation, soil requirement, cultivation practices and high yielding varieties of : i) Cereals (Wheat, Rice and Maize) ii) Fibres (Cotton) iii) Vegetables (Potato)	Power point presentation, group discussion, assignments.
Departmental Meeting held on 28.02.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans.				
March	1.03.2025	31.03.2025	MST Examinations - 05.03.2025-13.03.2025. Elementary knowledge of the following plants (Botanical names, families, parts used and economic importance): i) Wheat, Maize, Rice, Moong, Gram (Food). ii) Teak, Shisham, Deodar, Sal (Timbers). iii) Cotton, Jute, Coir, Flax (Fibres). iv) Fennel, Coriander, Turmeric,	Power point presentation, group discussion, assignments.

MONTHLY TEACHING PLAN (2024-25)

Sr. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
			Ginger, Mint, Clove (Spices and Condiments).	
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
April	01.04.2025	26.04.2025	Elementary knowledge of the following plants (Botanical names, families, parts used and economic importance): i) Bamboo, Eucalyptus (Pulp plants). ii) Liquorice, Belladonna, Aconite, Ashwagandha, Arjun, Poppy, Amla (Medicinal plants). iii) Tea and Coffee (Beverages). Forestry: Forest conservation, wood seasoning and its preservation. Revision and tests	Power point presentation, group discussion, assignments.
Departmental Meeting held on 14.04.2025 to review the progress of syllabus and assessments of students.				
Practical Examinations: 15.04.2025-24.04.2025 End Semester Examinations from 28.04.2025-04.06.2025 Semester Vacation – Summer Break – 01.06.2025-13.07.2025				