

**MEHR CHAND MAHAJAN DAV College for Women,  
Sector – 36-A, Chandigarh  
Monthly Teaching Plans [Third (Odd) Semester]  
Session: 2025-26**

**Name of the Teacher/s:** Dr. Ruby Singh

**Department:** Botany

**Class:** B.A., B.Sc. Ist Semester

**Subject:** SEC

**Course Title:** BASIC LAB SKILLS IN BOTANY

**Course Code:** BOT-SEC-1-101

Month	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
July	24.7.2025	31.7.2025	Microscopy, sample and slide Preparation: Components and functioning of dissecting and compound microscopes;	Lecture Method;PPT; Charts;Notes – Assignments
Departmental Meeting held on 30.07.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
August	1.8.2025	31.8.2025	Microscopy, sample and slide Preparation: Components and functioning of dissecting and compound microscopes(Continued); standard staining procedures, mounting and sealing.	Lecture Method;PPT; Charts;Notes – Assignments
Departmental Meeting held on 27.08.2025 to review the progress of syllabus as per lesson plans				
September	01.09.2025	30.09.2025	Methods in Field work: Collection and preservation of samples 7 Hours Herbarium: Introduction and significance; procedure and techniques for herbarium preparation, important herbarium of the world, virtual herbarium.	Lecture Method;PPT; Charts;Notes – Assignments
Departmental Meeting held on 24.09.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
October	01.10.2025	31.10.2025	<b>MST October 2025</b> Botanical Gardens: Introduction and significance; important botanical gardens of the world; significance of botanical gardens.	Lecture Method;PPT; Charts;Notes – Assignments
Departmental Meeting held on 29.10.2025 to review the progress of syllabus as per lesson plans				

November	01.11.2025	13.11.2025	Solutions and Buffers:Preparation of solutions; Molarity, Molality, Normality, percent solutions, pH measurements, buffer preparation. <b>Revision/doubt clearing Sessions</b>	Lecture Method;PPT; Charts; Notes – Assignments
<p>Departmental Meeting held on 12.11.2025 to review the progress of syllabus as per lesson plans;  End Semester Examinations from 14.11.2025 – 26.12.2025  Semester Vacation – Winter Break – 27.12.2025 – 09.01.2025</p>				

**MEHR CHAND MAHAJAN DAV College for Women,  
Sector – 36-A, Chandigarh  
Monthly Teaching Plans SECOND (Even) Semester]  
Session: 2025-26**

**Name of the Teacher/s:** Dr. Ruby Singh

**Department:** Botany

**Class:** B.Sc. BA

**Subject:** Course Title: BIOFERTILIZERS

**Course Code:** BOT-SEC-2-201

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
January	10.01.2026	31.01.2026	Rhizobium – isolation, identification, mass multiplication, carrier-based inoculants, Actinorhizal symbiosis. Azotobacter: classification, characteristics – crop response to Azotobacter inoculum, maintenance and mass multiplication.	Lecture Method – Notes/PPT/ Assignments;
Departmental Meeting held on 28.01.2026 to review the Monthly completion of Syllabus as per lesson plans				
February	01.02.2026	28.02.2026	General account about the microbes used as biofertilizer, Cyanobacteria (blue green algae), Azolla and Anabaena azolla association, nitrogen fixation, factors affecting growth, blue green algae and Azolla in rice cultivation.	Lecture Method – Notes/PPT/ Assignments
Departmental Meeting shall be held on 25.02.2026 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
March	01.03.2026	31.03.2026	<b>MST March 2026</b> Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and	Lecture Method – Notes/PPT/ Assignments

			inoculum production of VAM, and its influence on growth and yield of crop plants.	
Departmental Meeting shall be held on 25.03.2026 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
April	01.04.2026	25.04.2026	Organic farming–Green manuring and organic fertilizers, Re-cycling of bio-degradable municipal, agricultural and Industrial wastes – bio-compost making methods, types and method of vermicomposting–field Application. <b>Revision/doubt clearing Sessions</b>	Lecture Method – Notes/PPT/ Assignments
Departmental Meeting held on 23.04.2026 to Review the Monthly completion of Syllabus as per lesson plans. End Semester Examinations from 27.04.2026– 05.06.2026; Semester Vacation – Summer Break – 01.06.2026 – 13.07.2026.				

**MEHR CHAND MAHAJAN DAV College for Women,  
Sector – 36-A, Chandigarh  
Monthly Teaching Plans [Third (Odd) Semester]  
Session: 2025-26**

**Name of the Teacher/s:** Dr. Ruby Singh

**Department:** Botany

**Class:** B.Sc., BA, MFT Semester

**Subject:** SEC

**Course Title:** ORGANIC FARMING

**Course Code:** BOT-SEC-3-301

Month	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
July	24.7.2025	31.7.2025	Organic Agriculture – Concept and origin;	Lecture Method;PPT; Charts;Notes – Assignments
Departmental Meeting held on 30.07.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
August	1.8.2025	31.8.2025	Principles of Organic Agriculture; Comparative perspective of Organic and Conventional Agriculture; Organic Agriculture in the world and India.	Lecture Method;PPT; Charts;Notes – Assignments
Departmental Meeting held on 27.08.2025 to review the progress of syllabus as per lesson plans				
September	01.09.2025	30.09.2025	Organic Manure: Types of organic manure- Green manure, farm yard manure, farm compost, urban waste compost, rural waste compost, Advantages of organic manure.	Lecture Method;PPT; Charts;Notes – Assignments
Departmental Meeting held on 24.09.2025 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
October	01.10.2025	31.10.2025	<b>MST October 2025</b> Chemical Fertilizers: Chemical fertilizers and their impact on environment. Pollution of soil, surface and ground water due to overuse of fertilizers and pesticides and remedial measures, inorganic and organic fertilizers. Biofertilizers: Introduction, role in soil fertility and crop yield, crop-rotation, biopesticides	Lecture Method;PPT; Charts;Notes – Assignments
Departmental Meeting held on 29.10.2025 to review the progress of syllabus as per lesson plans				

November	01.11.2025	13.11.2025	Organic Certification– Certification Process, Product Labelling; Regulatory Mechanisms for Organic Certification in India.National Standards for Organic Production. <b>Revision/doubt clearing Sessions</b>	Lecture Method;PPT; Charts; Notes – Assignments
<p>Departmental Meeting held on 12.11.2025 to review the progress of syllabus as per lesson plans;  End Semester Examinations from 14.11.2025 – 26.12.2025  Semester Vacation – Winter Break – 27.12.2025 – 09.01.2025</p>				

