MEHR CHAND MAHAJAN DAV College for Women,
Sector – 36-A, Chandigarh
Monthly Teaching Plans [Third (Odd) Semester]
Session: 2026-27

Name of the Teacher/s: Dr. Ruby Singh

Department: Botany

Class: B.A., B.Sc. Med., M.F.T. 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	20.7.2026	31.7.2026	Microscopy, sample and slide Preparation: Components and functioning of dissecting and compound microscopes;	Lecture Method;PPT; Charts;Notes – Assignments
Departmental Meeting held on 29.07.2026 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
August	1.8.2026	31.8.2026	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 26.08.2026 to review the progress of syllabus as per lesson plans				
September	01.09.2026	30.09.2026	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 30.09.2026 to Coordinate and Review the Monthly completion ofSyllabus as per lesson plans				
October	01.10.2026	31.10.2026	**MST October 2026** 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 28.10.2026 to review the progress of syllabus as per lesson plans				

November	01.11.2026	17.11.2026	Solutions and Buffers:Preparation of solutions; Molarity, Molality, Normality, percent solutions, pH measurements, buffer preparation. **Revision/doubt clearing Sessions**	Lecture Method;PPT; Charts; Notes – Assignments
Departmental Meeting held on 16.11.2026 to review the progress of syllabus as per lesson plans; End Semester Examinations from 18.11.2026 – 31.12.2026				

MEHR CHAND MAHAJAN DAV College for Women,
Sector – 36-A, Chandigarh
Monthly Teaching Plans SECOND (Even) Semester]
Session: 2026-27

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	15.01.2027	31.01.2027	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 will be held on 27.01.2027 to review the Monthly completion of Syllabus as per lesson plans				
February	01.02.2027	28.02.2027	General account about the microbes used as biofertilizer, Cyanobacteria (blue green algae),AzollaandAnabaena azollaeassociation, nitrogenfixation, factors affecting growth, blue green algae and Azolla in rice cultivation.	Lecture Method – Notes/PPT/ Assignments
Departmental Meeting wil be held on 24.02.2027 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
March	01.03.2027	31.03.2027	**MST March 2026** Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence anddistribution, 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 will be held on 31.03.2027 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
April	01.04.2027	26.04.2027	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 vermi composting–field Application. **Revision/doubt clearing Sessions**	Lecture Method – Notes/PPT/ Assignments
Departmental Meeting will be held on 21.04.2027 to Review the Monthly completion of Syllabus as per lesson plans. End Semester Examinations from 27.04.2027– 05.06.2027;				

MEHR CHAND MAHAJAN DAV College for Women,
Sector – 36-A, Chandigarh
Monthly Teaching Plans [Third (Odd) Semester]
Session: 2026-27

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	20.7.2026	31.7.2026	Organic Agriculture – Concept and origin;	Lecture Method;PPT; Charts;Notes – Assignments
Departmental Meeting held on 29.07.2026 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
August	1.8.2026	31.8.2026	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 26.08.2026 to review the progress of syllabus as per lesson plans				
September	01.09.2026	30.09.2026	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 30.09.2026 to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
October	01.10.2026	31.10.2026	**MST October 2026** 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 28.10.2026 to review the progress of syllabus as per lesson plans				

November	01.11.2026	17.11.2026	Organic Certification– Certification Process, Product Labelling; Regulatory Mechanisms for Organic Certification in India.National Standards for Organic Production. **Revision/doubt clearing Sessions**	Lecture Method;PPT; Charts; Notes – Assignments
Departmental Meeting held on 16.11.2026 to review the progress of syllabus as per lesson plans; End Semester Examinations from 18.11.2026 – 31.12.2026				