Yashwantrao Chavan Maharashtra Open University
Dnyangangotri near Gangapur Dam, Nashik, Pin Code-422222, Maharashtra(India)

Programme Structure Scheme

For

Post Graduate,
2 Year(s) Master Degree Program in

School of Sciences

Master of Science in Botany(V156 - M.Sc. in Botany)

(Credits System)

(2023 Pattern - NEP-Open and Distance Learning)

Programme Code: V156

Publisher's Note

This Yashwantrao Chavan Maharashtra Open University has great Pleasure in publishing this programme structure for Post Graduate programme for 2 Year(s) Master Degree Program as "Master of Science in Botany" (2023 Pattern - NEP - Open and Distance Learning) under the School of "School of Sciences".

On behalf of the University, I thank experts and authorities of the University for the interest taken and the whole hearted co-operation extended by them in bringing out this publication.

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Yashwantrao Chavan Maharashtra Open
University,Dnyangangotri near Gangapur Dam,
Nashik, Pin Code-422222, Maharashtra(India) Registrar

Programme Objective(s)

1. This programme has the following broad objectives:

• Inculcate critical thinking and analytical skills to enable students to pursue higher studies and research in Life Sciences or related fields of Botany.

• Provide a strong foundation for a better understanding of current advances in Botany and its practical significance.

• Expose students to current trends in research about Botany.

• Gain comprehensive overview about the various courses included in the programme.

• To provide students with a comprehensive understanding of the principles of botany.

• To develop students' research skills in botany.

• To prepare students for careers in botany, research, or related fields.

Programme Outcome

After successful completion of this programme, students will be able to

• Define the terms "botany", "plant", and "plant science" and explain their relationship to each other.

• Understand the basic principles of plant anatomy, physiology, and ecology.

• Conduct research in botany using a variety of methods.

• Communicate effectively about botany through written reports, presentations, and other media.

• Apply the principles of botany to solve real-world problems.

The Master of Science in Botany Consists of following 2 programme part(s):

Sr.No.	Programme Part Name	Programme Part Abbrevation	Examination Pattern
1	Year-1	Year-1	Semester
2	Year-2	Year-2	Semester

The Master of Science in Botany is available in following medium of instruction/s:

1. English

Programme Part: Year-1 Separate Passing Head: No, Min: 0, Max: 1100, Total Credits: 44.00

Term: Semester I Separate Passing Head: No, Min Courses: 6, Max Courses: 6, Min:0,Max:550, Total Credits: 22.00

The courses for Year-1 - Semester I are classified into following groups:

1.Major Elective (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)
Select minimum 1 course(s)
Select maximum 1 course(s)

Courses:

BOT506	Applied Phycology
BOT507	Tools and Techniques in Plant Science

2.Major Mandatory (Min Courses: 4, Max Courses: 4,
Separate Passing Head: No, Max. Marks: 350)
Select minimum 4 course(s)
Select maximum 4 course(s)

Courses:

BOT501	Diversity of Non-Vascular Plants-I
BOT502	Diversity of Non-Vascular Plants-II
BOT503	Diversity of Vascular Plants & Paleobotany -I
BOT504	Lab Activities on BOT501, BOT502 & BOT503

3.Research Methodology (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)
Select minimum 1 course(s)
Select maximum 1 course(s)

Courses:

RES505	Research Methodology

Term: Semester II Separate Passing Head: No, Min Courses: 6, Max Courses: 6, Min:0,Max:550, Total Credits: 22.00

The courses for Year-1 - Semester II are classified into following groups:

1.Major Elective (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)
Select minimum 1 course(s)
Select maximum 1 course(s)

Courses:

BOT515	Biotechnology and Molecular Biology
BOT516	Ecology and Phytogeography

2.Major Mandatory (Min Courses: 4, Max Courses: 4,
Separate Passing Head: No, Max. Marks: 350)
Select minimum 4 course(s)
Select maximum 4 course(s)

Courses:

BOT509	Plant Physiology
BOT510	Herbal Wealth
BOT511	Diversity of Vascular Plants & Paleobotany-II
BOT512	Lab Activities on BOT509, BOT510 & BOT511

3.OJT & FP Elective (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)
Select minimum 1 course(s)
Select maximum 1 course(s)

Courses:

BOT513	On Job Training
BOT514	Field Project

Programme Part: Year-2 Separate Passing Head: No, Min: 0, Max: 1100, Total Credits: 44.00

Term: Semester III Separate Passing Head: No, Min Courses: 6, Max Courses: 6, Min:0,Max:550, Total Credits: 22.00

The courses for Year-2 - Semester III are classified into following groups:

1.Major Elective (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)
Select minimum 1 course(s)
Select maximum 1 course(s)

Courses:

BOT606	Biostatistics
BOT607	Mycology and Plant Pathology
BOT608	Renewable Energy Studies

2.Major Mandatory (Min Courses: 4, Max Courses: 4,
Separate Passing Head: No, Max. Marks: 350)
Select minimum 4 course(s)
Select maximum 4 course(s)

Courses:

BOT601	Cytogenetics and Plant Breeding
BOT602	Advanced Plant Physiology
BOT603	Pharmacognosy
BOT604	Lab Activities on BOT601, BOT602 & BOT603

3.Research Project (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)
Select minimum 1 course(s)
Select maximum 1 course(s)

Courses:

BOT605	Research Project

Term: Semester IV Separate Passing Head: No, Min Courses: 5, Max Courses: 5, Min:0,Max:550, Total Credits: 22.00

The courses for Year-2 - Semester IV are classified into following groups:

1.Major Elective (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 100)
Select minimum 1 course(s)
Select maximum 1 course(s)

Courses:

BOT613	Anatomy and Embryology
BOT614	Hydroponic Technology
BOT615	Medicinal Plants and their Applications

2.Major Mandatory (Min Courses: 3, Max Courses: 3,
Separate Passing Head: No, Max. Marks: 300)
Select minimum 3 course(s)
Select maximum 3 course(s)

Courses:

BOT609	Taxonomy of Angiosperms
BOT610	Seed Technology
BOT611	Lab Activities on BOT609 & BOT610

3.Reserch Project (Min Courses: 1, Max Courses: 1,
Separate Passing Head: No, Max. Marks: 150)
Select minimum 1 course(s)
Select maximum 1 course(s)

Courses:

BOT612	Research Project