

Singhania University
(UGC- recognized university per section 2(f) of the UGC Act 1956)
COURSE OUTLINE

COURSE TITLE	Fundamentals of Horticulture
Course Code	AGR-01
Credits	4(L:3 ,P:2,5)
Faculty Name	Dr. Preeti
Program	B.sc agriculture
Academic Year and Semester	w.e.f.2024-25,1 st Semester

1. Course Description

2. At the end of this course ,students should be able to:

After completing this course ,the learner will be able to learn different type pollination and agriculture method

3. Required Text book and Reference Material:

- Material will be provided by faculty.

4. Session Plan:

Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance & Classroom participation	10%	Students should have at least 75% attendance
Mid-Sem Exam	20%	Mid term exam must be cleared by students for appearing in final examination.
End-Sem Exam	50%	The end term exam must be cleared for appearing in next semester with a minimum passing criteria .

6. Academic Integrity:

Please note that students involved in academic dishonesty will receive a ZERO grade on the particular component in which the infraction occurred.

● Academic dishonesty consists of misrepresentation by deception or by other fraudulent means. In an academic setting this may take the form of copying or use of unauthorized aids in tests, assignments, examinations, term papers, or cases; plagiarism; talking during in-class examinations; submission of work that is not your own without citation; submission of work generated by another person; aiding and abetting another student's dishonesty; and giving false information for the purpose of gaining credits.

7. No Network Policy

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COURSE TITLE	Fundamentals of Plant Biochemistry and Biotechnology
Course Code	AGR-02
Credits	4(L:3 ,P:2,5)
Faculty Name	Dr. Preeti
Program	B.Sc agriculture
Academic Year and Semester	w.e.f.2024-25,1 st sem

1. Course Description

Fundamentals of Plant Biochemistry and Biotechnology is an essential program in agriculture .

2. Student Learning Outcomes:

At the end of this course, students should be able to:

After completing this course, the learner will be able to about different technique used in biotechnology and biochemistry

3. Required Text book and Reference Material:

- Material will be provided by faculty.

4. Session Plan:

Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance & Classroom participation	10%	Students should have atleast 75% attendance
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COURSE TITLE	Fundamentals of Soil Science
Course Code	AGR-03
Credits	2(L:1,P: 1,2)
Faculty Name	Dr. Preeti
Program	B.Sc Agriculture
Academic Year and Semester	w.e.f.2024-25,1 st Semester

1. Course Description

Fundamentals of Soil Science is a program in life Science . The objective of this subject is to enable the students to prepare data in a best way

2. Student Learning Outcomes:

At the end of this course, students should be able to:

.After completing this course, the learner will be able to:

1After completing this course, the learner will be able to:

1.Understand the different groups oil and taxonomics group

3. Required Text book and Reference Material:

- Material will be provided by faculty.

4. Session Plan:

Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance & Classroom participation	10%	Students should have atleast 75% attendance
Mid-Sem Exam	20%	Mid term exam must be cleared by students for appearing in final examination.

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COURSE TITLE	Introduction to Forestry
Course Code	AGR-04
Credits	4(L:3,T:1,4)
Faculty Name	Dr. Preeti
Program	B.Sc Agriculture

Academic Year and Semester	w.e.f.2024-25,1 st Semester
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1. Course Description

(Introduction to Forestry) is an minor program in B.Sc Agriculture.The objective of this is to enable the students to ensure the connection of daily life in field .

2. Student Learning Outcomes:

At the end of this course, students should be able to:

- 1 . learn different type of vaccine and medicine preparation and role of biotechnology in genetic engineering

3. Required Text book and Reference Material:

- Material will be provided by faculty.

4. Session Plan:

- Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance &Classroom participation	10%	Students should have atleast 75% attendance
Mid-Sem Exam	20%	Mid term exam must be cleared by students for appearing in final examination.

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COURSE TITLE	Fundamentals of Agronomy
Course Code	AGR-01
Credits	2(L:1,T:1,2)
Faculty Name	Dr. Preeti
Program	Bachelor of agriculture
Academic Year and Semester	w.e.f.2024-25, 1 st Semester

1. Course Description

Fundamentals of Agronomy is a “minor program” in B.Sc Agriculture

2. Student Learning Outcomes:

At the end of this course, students should be able to:

Students will learn about Weeds-importance, classification, etc..

- Material will be provided by faculty.

4. Session Plan:

- Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.

Attendance & Classroom participation	10%	Students should have atleast 75% attendance
Mid-Sem Exam	20%	Mid term exam must be cleared by students for appearing in final examination.

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COURSE TITLE	Introductory Biology
Course Code	AGR-M1
Credits	3(T:3 P:0,3)
Faculty Name	Dr. Preeti
Program	B.sc of Agriculture
Academic Year and Semester	w.e.f.2024-25, 1 st Semester

1. Course Description

Introductory Biology is” **multidisciplinary**” subject in B.sc Agriculture

2. Student Learning Outcomes:

At the end of this course, students should be able to:

1. Learn and correlate the biochemistry and human biology; illustrate role of biomolecules in body.
2. Understand the biochemical nature and functions of hormones.
3. Learn to correlate the cellular metabolism and energy production
4. Know the various applications of biochemistry in industrial & medical sector.
- 5*. Acquire knowledge and hands-on training of analytical tools of biochemistry & understanding of good laboratory practices; learn qualitative aspects of various biomolecules

3. Required Text book and Reference Material:

- Material will be provided by faculty.

4. Session Plan:

- Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance & Classroom participation	10%	Students should have atleast 75% attendance
Mid-Sem Exam	20%	Mid term exam must be cleared by students for appearing in final examination.
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COURSE TITLE	Fundamentals of Genetics
Course Code	AGR-02
Credits	4(L:3, T:1,4)
Faculty Name	Dr. Preeti
Program	B.sc AGRICULTURE
Academic Year and Semester	w.e.f.2024-25,2 nd Semester

1. Course Description

Fundamentals of Genetics) is an essential program in B.sc AGRICULTURE

2. **Student Learning Outcomes** : Students will learn about modern genetic engineering

3. **Required Textbook and Reference Material:**

- Material will be provided by faculty.

4. **Session Plan :**

- Session plan will be provided by faculty members according to the syllabus.

1. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance & Classroom participation	10%	Students should have atleast 75% attendance

Mid-Sem Exam	20%	Mid term exam must be cleared by students for appearing in final examination.
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)

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COURSE TITLE	Agricultural Microbiology
Course Code	AGR-02
Credits	3(L:2,T:1,3)
Faculty Name	Dr. Preeti
Program	B.sc AGRICULTURE
Academic Year and Semester	w.e.f.2024-25,2 nd Semester

1. Course Description:

C Agricultural Microbiology is a MAJOR course” in B.sc AGRICULTURE

2. Student Learning Outcomes :

At the end of this course, students should be able to:

1. learn some agricultural terms in different platform

3. Required Textbook and Reference Material:

- Material will be provided by faculty.

2. Session Plan:

- Session plan will be provided by faculty members according to the syllabus.

3. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4Sizeshheetinawellmanneredway)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance &Classroom participation	10%	Students should have at least 75% attendance
Mid-Sem Exam	20%	Mid term exam must be cleared by students for appearing in final examination.
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COURSE TITLE	Soil and Water Conservation Engineering
Course Code	AGR-02
Credits	3(L:2,T:1 ,3)
Faculty Name	Dr. Preeti
Program	B.sc AGRICULTURE
Academic Year and Semester	w.e.f.2024-25,2 nd Semester

1. Course Description

Soil and Water Conservation Engineering is a major programme of B.sc AGRICULTURE

2. **Student Learning Outcomes** : Students will learn about conserve water and soil management

3. **Required Textbook and Reference Material:**

- Material will be provided by faculty.

Session Plan :

- Session plan will be provided by faculty members according to the syllabus.

4. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance & Classroom participation	10%	Students should have atleast 75% attendance

Mid-Sem Exam	20%	Mid term exam must be cleared by students for appearing in final examination.
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COURSE TITLE	Fundamentals of Agricultural Economics
Course Code	AGR-02
Credits	2 (T:2 , P: 0 , 2)
Faculty Name	Dr. Preeti
Program	B.sc AGRICULTURE
Academic Year and Semester	w.e.f.2024-25,2 nd Semester

1. Course Description

Fundamentals of Agricultural Economics is “minor program” in bachelor of life Science. The objective of this is to enable the students about the different problems.

2. Student Learning Outcomes : After completing this course, the learner will be able to:

1. To know the basics agriculture

3. Required Textbook and Reference Material:

- Material will be provided by faculty.

4. Session Plan :

- Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance & Classroom participation	10%	Students should have atleast 75% attendance
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COURSE TITLE	Fundamentals of Entomology
Course Code	AGR-02
Credits	4(L:3,T:1,4)
Faculty Name	Dr. Preeti
Program	B.sc AGRICULTURE
Academic Year and Semester	w.e.f.2024-25,2 nd Semester

1. Course Description

Fundamentals of Entomology is an essential program in B.sc agriculture. The objective of this is to enable the knowledge of different varieties.

2. Student Learning Outcomes :

Students will acquire a foundational understanding of plant diversity. 2. Students will develop a conceptual grasp of plants utilized for human welfare. 3. Students will gain knowledge about the origins of certain cultivated plants. 4. Students will acquire a conceptual understanding of the utilization of fruits, nuts, and other plant components for human welfare.

3. Required Textbook and Reference Material:

- Material will be provided by faculty.

4. Session Plan :

- Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance & Classroom participation	10%	Students should have at least 75% attendance
Mid-Sem Exam	20%	Mid term exam must be cleared by students for appearing in final examination.
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COURSE TITLE	Cell and molecular biology
Course Code	AGR-02
Credits	4(L:3,T:1,4)
Faculty Name	Dr. Preeti
Program	B.sc AGRICULTURE
Academic Year and Semester	w.e.f.2024-25,2 nd Semester

1. Course Description

ZOOLOGY (Cell and molecular biology) is an essential program in Bachelor in life science. The objective of this is to enable the knowledge of cells and their cell organelles.

2. Student Learning Outcomes :

After completing this course, the learner will be able to: 1. Understand the basic concepts of cell and its cell organelles.

3. Required Textbook and Reference Material:

- Material will be provided by faculty.

4. Session Plan :

- Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance & Classroom participation	10%	Students should have at least 75% attendance
Mid-Sem Exam	20%	Mid term exam must be cleared by students for appearing in final examination.
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)

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COURSE TITLE	Fundamentals of Agricultural Extension Education
Course Code	MDC-201
Credits	4(L:3,T:1,4)
Faculty Name	Dr. Preeti
Program	B.sc AGRICULTURE
Academic Year and Semester	w.e.f.2024-25,2 nd Semester

1. Course Description

Fundamentals of Agricultural Extension Education is an essential program in B.sc agriculture. The objective of this is to enable the knowledge of different types of plants.

2. **Student Learning Outcomes** : Students will learn about modern genetic engineering.

3. Required Textbook and Reference Material:

- Material will be provided by faculty.

4. Session Plan :

- Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well-mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
Attendance & Classroom participation	10%	Students should have at least 75% attendance
Mid-Sem Exam	20%	Mid-term exam must be cleared by students for appearing in final examination.
Assignment	10%	Sheet Work(A-4 Size sheet in a well-mannered way)

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COURSE TITLE	BOTANY (Biochemistry & Health)
Course Code	MDC-01
Credits	4(L:3,T:1,4)
Faculty Name	Dr. Preeti
Program	B.sc AGRICULTURE
Academic Year and Semester	w.e.f.2024-25,2 nd Semester

1. Course Description

BOTANY (Biochemistry&Health) is an essential program in Bachelor in life science The objective of this is to enable the knowledge of different type of chemical used in biology

2. **Student Learning Outcomes** : Students will learn about modern Biochemistry & Health

3. **Required Textbook and Reference Material:**

- Material will be provided by faculty.

4. **Session Plan :**

- Session plan will be provided by faculty members according to the syllabus.

5. Evaluation:

COMPONENT	WEIGHTAGE	DETAILS
Assignment	10%	Sheet Work(A-4 Size sheet in a well mannered way)
Tests	10%	Test would be taken to assess the knowledge about topics related to daily basis classes.
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