

BACHELOR OF SCIENCE (HONOURS)

Duration: 36 Months (3 Years) Eligibility: 12th Pass from Science with Minimum 60%

COURSE STRUCTURE OF BOTANY (HONOURS) SEMESTER 1st

| Course Details | | | | External Assessment | | Internal Assessment | | | | Credit Distribution | | | Allotted Credits |
|------------------------|----------------------|--|-------------|--------------------------------|-----------|------------------------|-----------|------------------|-----------|---------------------|----------|-----------|---------------------------|
| Course Code | Course Type | Course Title | Total Marks | Major | | Minor | | Sessional *** | | L | T | P | Subject wise Distribution |
| | | | | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | | | | |
| Theory Group | | | | | | | | | | | | | |
| 3HBHL101H | Ability Enhancement | हिन्दी भाषा और संरचना | 50 | 25 | 08 | 10 | 04 | 15 | 06 | 2 | - | - | 2 |
| 3CBCA201H | Ability Enhancement | Basic Information Computer Technology - I | 25 | 13 | 04 | 05 | 02 | 07 | 03 | 1 | - | - | 1 |
| 3SBBO103H | Core Course - 1 | Diversity of microbes and cryptogams | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| 3SBBO106H | Core Course- 2 | Anatomy of Angiosperms | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| | Generic Elective - 1 | (Select From Below Given Specialized Subject)* | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| Practical Group | | | | Term End Practical Exam | | Lab Performance | | Sessional | | | | | |
| 3SBBO103H | Practical | Diversity of microbes and cryptogams | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| 3SBBO106H | Practical | Anatomy of Angiosperms | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| | Practical | (Select From Below Given Specialized Subject)* | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| 3CBCA201H | Practical | Basic Information Computer Technology - I | 25 | 10 | 04 | 15 | 06 | - | - | - | - | 1 | 1 |
| Grand Total | | | 550 | | | | | | | 15 | - | 07 | 22 |

Minimum Passing Marks are equivalent to Grade C

Major- Term End Theory Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

L- Lectures T- Tutorials P- Practical

* Generic Elective Specialization: Opted specialization by student in 1st Semester will remain same in IInd, IIIrd and IVth Semester (See the specialisation subject as mentioned below)*

| Generic Elective- 1 | | |
|---------------------|-------------|---------|
| Specialisation | Course Code | Subject |
| | | |

| | | |
|-----------|-----------|------------------------------|
| Zoology | 3SBZO105H | Invertebrates & Cell Biology |
| Chemistry | 3SBCH104H | Chemistry - I |

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| COURSE STRUCTURE OF BOTANY (HONOURS) SEMESTER IInd | | | | | | | | | | | | | |
|---|---------------------|--|-------------|--------------------------------|-----------|------------------------|-----------|------------------|-----------|---------------------|----------|-----------|---------------------------|
| Course Details | | | | External Assessment | | Internal Assessment | | | | Credit Distribution | | | Allotted Credits |
| Course Code | Course Type | Course Title | Total Marks | Major | | Minor | | Sessional *** | | L | T | P | Subject wise Distribution |
| | | | | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | | | | |
| Theory Group | | | | | | | | | | | | | |
| 3HBEL201H | Ability Enhancement | English Language and Indian Culture | 50 | 25 | 08 | 10 | 04 | 15 | 06 | 2 | - | - | 2 |
| 3MBFE101H | Ability Enhancement | Fundamental of Entrepreneurship | 50 | 25 | 08 | 10 | 04 | 15 | 06 | 2 | - | - | 2 |
| 3SBBO203H | Core Course-3 | Cell biology and genetics | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| 3SBBO206H | Core Course-4 | Economic botany | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| | Generic Elective -2 | (Select From Below Given Specialized Subject)* | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| Practical Group | | | | Term End Practical Exam | | Lab Performance | | Sessional | | | | | |
| 3SBBO203H | Practical | Cell biology and genetics | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| 3SBBO206H | Practical | Economic botany | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| | Practical | (Select From Below Given Specialized Subject)* | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| Skill Courses | | | | | | | | Sessional | | | | | |
| | Skill Enhancement | Skill Enhancement Elective Course-I | 50 | - | - | - | - | 50 | 20 | 1 | - | 1 | 2 |
| Grand Total | | | 600 | | | | | | | 17 | - | 07 | 24 |

Minimum Passing Marks are equivalent to Grade C

L- Lectures T- Tutorials P- Practical

Major- Term End Theory / Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

Skill Elective I – Any other course being offered in this semester as per the list given at the end of course structure.

* Generic Elective Specialization: Opted specialization by student in 1st Semester will remain same in IInd, IIIRD and IVth Semester (See the specialisation subject as mentioned below)*

| Generic Elective- 2 | | |
|----------------------------|--------------------|-------------------------------------|
| Specialisation | Course Code | Subject |
| Zoology | 3SBZO205H | Vertebrates & developmental biology |
| Chemistry | 3SBCH204H | Chemistry - II |

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COURSE STRUCTURE OF BOTANY (HONOURS) SEMESTER III rd

| Course Details | | | | External Assessment | | Internal Assessment | | | | Credit Distribution | | | Allotted Credits |
|------------------------|---------------------|--|-------------|--------------------------------|-----------|------------------------|-----------|------------------|-----------|---------------------|----------|-----------|---------------------------|
| Course Code | Course Type | Course Title | Total Marks | Major | | Minor | | Sessional *** | | L | T | P | Subject wise Distribution |
| | | | | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | | | | |
| Theory Group | | | | | | | | | | | | | |
| 3HBHL302H | Ability Enhancement | हिन्दी भाषा सवेधना एवं संचार साधन | 50 | 25 | 08 | 10 | 04 | 15 | 06 | 2 | - | - | 2 |
| 3CBCA502H | Ability Enhancement | Basic Information Computer Technology - II | 25 | 13 | 04 | 05 | 02 | 07 | 03 | 1 | - | - | 1 |
| 3SBBO303H | Core Course-5 | Bio-Diversity and systematic of seed plants | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| 3SBBO306H | Core Course-6 | Molecular biology | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| | Generic Elective -3 | (Select From Below Given Specialized Subject)* | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| Practical Group | | | | Term End Practical Exam | | Lab Performance | | Sessional | | | | | |
| 3SBBO303H | Practical | Bio-Diversity and systematic of seed plants | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| 3SBBO306H | Practical | Molecular biology | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| | Practical | (Select From Below Given Specialized Subject)* | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| 3CBCA502H | Practical | Basic Information Computer Technology - II | 25 | 10 | 04 | 15 | 06 | - | - | - | - | 1 | 1 |
| Skill Courses | | | | | | | | Sessional | | | | | |
| | Skill Enhancement | Skill Enhancement Elective Course-II | 50 | - | - | - | - | 50 | 20 | 1 | - | 1 | 2 |
| Grand Total | | | 600 | | | | | | | 16 | - | 08 | 24 |

Minimum Passing Marks are equivalent to Grade C

Major- Term End Theory / Practical Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

L- Lectures T- Tutorials P- Practical

Skill Elective II– Any other course being offered in this semester as per the list given at the end of course structure.

| Generic Elective- 3* | | |
|-----------------------------|--------------------|----------------|
| Specialisation | Course Code | Subject |
| Zoology | 3SBZO305H | Genetics |
| Chemistry | 3SBCH304H | Chemistry -III |

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COURSE STRUCTURE OF BOTANY (HONOURS) SEMESTER IVth

| Course Details | | | | External Assessment | | Internal Assessment | | | | Credit Distribution | | | Allocated Credits |
|------------------------|---------------------|--|-------------|--------------------------------|-----------|------------------------|-----------|------------------|-----------|---------------------|----------|-----------|---------------------------|
| Course Code | Course Type | Course Title | Total Marks | Major | | Minor | | Sessional *** | | L | T | P | Subject wise Distribution |
| | | | | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | | | | |
| Theory Group | | | | | | | | | | | | | |
| 3HBEL402H | Ability Enhancement | English language and scientific temper | 50 | 25 | 08 | 10 | 04 | 15 | 06 | 2 | - | - | 2 |
| 3HBHP401H | Ability Enhancement | Human Values & Ethics | 50 | 25 | 08 | 10 | 04 | 15 | 06 | 2 | - | - | 2 |
| 3SBBO403H | Core Course - 7 | Structure developments & reproduction in flowering plant | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| 3SBBO406H | Core Course- 8 | Plant metabolism | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| | Generic Elective -4 | (Select From Below Given Specialized Subject)* | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| Practical Group | | | | Term End Practical Exam | | Lab Performance | | Sessional | | | | | |
| 3SBBO403H | Practical | Structure developments & reproduction in flowering plant | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| 3SBBO406H | Practical | Plant metabolism | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| | Practical | (Select From Below Given Specialized Subject)* | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| Grand Total | | | 550 | | | | | | | 16 | - | 06 | 22 |

Minimum Passing Marks are equivalent to Grade C

L- Lectures T- Tutorials P- Practical

Major- Term End Theory Exam

Minor- Pre University Test

Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%

| Generic Elective- 4* | | |
|-----------------------------|-------------|-------------------|
| Specialisation | Course Code | Subject |
| Zoology | 3SBZO405H | Animal Physiology |
| Chemistry | 3SBCH404H | Chemistry -IV |

SKILL ENHANCEMENT ELECTIVE COURSES

| Non-Technical | | | |
|----------------------|--|--|----------|
| Elective No. | Department/ Faculty Name | | |
| | Faculty of Information Technology | | |
| I | SCIT 201 | Data Entry Operation | 2(1+0+1) |
| II | SCIT 301 | Multimedia | 2(1+0+1) |
| III | SCIT 501 | Web Designing with HTML | 2(1+0+1) |
| IV | SCMIT 201 | Web Development | 2(1+0+1) |
| V | SCMIT 301 | LINUX | 2(1+0+1) |
| | Faculty of Management | | |
| I | SMGT 201 | Briefing and Presentation Skills | 2(1+0+1) |
| II | SMGT 301 | Resolving Conflicts and Negotiation Skills | 2(1+0+1) |
| III | SMGT 802 | Entrepreneurship Development | 2(1+0+1) |
| | Faculty of Commerce | | |
| I | SCOM 201 | Tally ERP 9 | 2(1+0+1) |
| II | SCOM 302 | Multimedia | 2(1+0+1) |
| III | SCOM 803 | Data Analyst | 2(1+0+1) |
| | Faculty of Humanities | | |
| I | SHBA 301 | Pursuing Happiness | 2(1+0+1) |
| II | SHBA302 | Communication Skill and Personality Development | 2(1+0+1) |
| III | SHMA301 | Tourism in M.P | 2(1+0+1) |
| | Faculty of Science | | |
| I | SSBI 301 | Mushroom Cultivation | 2(1+0+1) |
| II | SSPH 301 | House Hold Wiring | 2(1+0+1) |
| III | SSPH 301 | Basic Instrumentation | 2(1+0+1) |
| IV | SSPH 301 | DTP Operator | 2(1+0+1) |
| V | SSCH 301 | Graphic Designing | 2(1+0+1) |
| | Faculty of Education | | |
| I | SCBE 403 | Understanding of ICTC (Information Communication Technology) | 2(1+0+1) |
| II | SCPE 201 | Yoga Education | 2(1+0+1) |

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| COURSE STRUCTURE OF BOTANY (HONOURS) SEMESTER Vth | | | | | | | | | | | | | |
|--|--|---|--------------------|--------------------------------|------------------|----------------------------|------------------|----------------------|------------------|----------------------------|----------|-----------|----------------------------------|
| Course Details | | | | External Assessment | | Internal Assessment | | | | Credit Distribution | | | Allotted Credits |
| Course Code | Course Type | Course Title | Total Marks | Major | | Minor | | Sessional *** | | L | T | P | Subject wise Distribution |
| | | | | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | | | | |
| Theory Group | | | | | | | | | | | | | |
| 3SBBO501H | Core Course - 9 | Plant physiology and biochemistry | 50 | 25 | 08 | 10 | 04 | 15 | 06 | 2 | - | - | 2 |
| 3SBBO502H | Core Course -10 | Plant Pathology | 50 | 25 | 08 | 10 | 04 | 15 | 06 | 2 | - | - | 2 |
| 3SBBO503H | Core Course -11 | Plant Resource Utilization And Conservation | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| 3SBBO504H | Discipline Specific Elective-1(Group A) | Plant structure and Development | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| 3SBBO505H | Discipline Specific Elective-2(Group A) | Biology and diversity of Gymnosperms | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| Practical Group | | | | Term End Practical Exam | | Lab Performance | | Sessional | | | | | |
| 3SBBO501H | Practical | Plant physiology and biochemistry | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| 3SBBO502H | Practical | Plant Pathology | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| 3SBBO503H | Practical | Plant Resource Utilization And Conservation | 50 | 25 | 08 | 25 | 08 | - | - | - | - | 2 | 2 |
| 3SBBO504H | Practical | Plant structure and Development | 50 | 25 | 08 | 25 | 25 | - | - | - | - | 2 | 2 |
| 3SBBO505H | Practical | Biology and diversity of Gymnosperms | 50 | 25 | 08 | 25 | 25 | - | - | - | - | 2 | 2 |
| Grand Total | | | 650 | | | | | | | 16 | - | 10 | 26 |

Minimum Passing Marks are equivalent to Grade C

L- Lectures T- Tutorials P- Practical

Major- Term End Theory Exam
 Minor- Pre University Test
 Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%
 Skill Elective II– Any other course being offered in this semester as per the list given at the end of course structure.

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| COURSE STRUCTURE OF BOTANY (HONOURS) SEMESTER VI th | | | | | | | | | | | | | |
|--|---|--|-------------|-------------------------|-----------|---------------------|-----------|---------------|-----------|---------------------|---|---|---------------------------|
| Course Details | | | | External Assessment | | Internal Assessment | | | | Credit Distribution | | | Allotted Credits |
| Course Code | Course Type | Course Title | Total Marks | Major | | Minor | | Sessional *** | | L | T | P | Subject wise Distribution |
| | | | | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | | | | |
| Theory Group | | | | | | | | | | | | | |
| 3SBBO601H | Core Course - 12 | Plant ecology, biodiversity and phytogeography | 50 | 25 | 08 | 10 | 04 | 15 | 06 | 2 | - | - | 2 |
| 3SBBO602H | Core Course -13 | ETHNOBOTANY | 50 | 25 | 08 | 10 | 04 | 15 | 06 | 2 | - | - | 2 |
| 3SBBO603H | Core Course -14 | Plant Systematics | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| 3SBBO604H | Discipline Specific Elective-3(Group B) | Plants & Society | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| 3SBBO605H | Discipline Specific Elective-4(Group B) | Plant cell ,Tissue and Organ Culture | 100 | 50 | 17 | 20 | 08 | 30 | 12 | 4 | - | - | 4 |
| Practical Group | | | | Term End Practical Exam | | Lab Performance | | Sessional | | | | | |
| 3SBBO501 | Project/Dessertation | Project&Viva Voice | 100 | 50 | 17 | - | - | 50 | 20 | - | - | 4 | 4 |
| Grand Total | | | 500 | | | | | | | | | | 20 |

Minimum Passing Marks are equivalent to Grade C

L- Lectures T- Tutorials P- Practical

Major- Term End Theory Exam
 Minor- Pre University Test
 Sessional weightage – Attendance 50%, Three Class Tests/Assignments 50%
 Compulsory Project/Dessertation with choice if any Disciplinary specific elective, Compulsory one paper presentation certificate in related discipline