



**DEPARTMENT OF BOTANY & HORTICULTURE**  
 (Under Graduate, Post Graduate and Research Centre)

**TEACHING PROGRAMMES OF THE DEPARTMENT**

**BOTANY (UG):**

**1. Details of the teaching programme for Botany (UG):**

<b>Sr. No.</b>	<b>Class &amp; Semester</b>	<b>Course Name</b>	<b>Number &amp; Title of theory, practical and SEC papers</b>	<b>Link for Syllabus, POs, LOs and Outcomes</b>
1.	B.Sc. I Year Semester-I	CCB-I	<b>Theory Paper-I:</b> Viruses, Bacteria Algae , Fungi , Lichens and Mycorrhiza	<a href="#">pdf</a>
2.	B.Sc. I Year Semester-I	CCB-I	<b>Theory Paper-II:</b> Plant Ecology , Phytogeography and Environmental Biology	
3.	B.Sc. I Year Semester-II	CCB-II	<b>Theory Paper-III:</b> Bryophytes, Pteridophytes Gymnosperms and paleobotany	
4.	B.Sc. I Year Semester-II	CCB-II	<b>Theory Paper-IV:</b> Taxonomy of Angiosperms	
5.	B.Sc. I Year Annual pattern	CCBP-I	<b>Practical Paper-V:</b> Practicals based on all theory papers	
6.	B.Sc. II Year Semester-III	CCB-III	<b>Theory Paper-VI:</b> Plant Anatomy	<a href="#">pdf</a>
7.	B.Sc. II Year Semester-III	CCB-III	<b>Theory Paper-VII:</b> Plant Physiology	
8.	B.Sc. II Year Semester-IV	CCB-IV	<b>Theory Paper-VIII:</b> Plant Embryology	
9.	B.Sc. II Year Semester-IV	CCB-IV	<b>Theory Paper-IX:</b> Plant Metabolism and Biochemistry	
10.	B.Sc. II Year Annual pattern	CCBP-II	<b>Practical Paper-X:</b> Practicals based on Theory paper-VI,VIII	
11.	B.Sc. II Year Annual pattern	SECB-I	<b>SECB-I</b>	
12.	B.Sc. II Year Annual	CCBP-III	<b>Practical Paper-XI:</b> Practicals based on Theory paper-VII,IX	



**Shri Sharda Bhavan Education Society's**  
**YESHWANT MAHAVIDYALAYA, NANDED**

VIP Road, Nanded - 431 602 (M.S.) India  
 (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)  
 (Re-accredited by NAAC, as Grade 'A' College and a CPE status by UGC)



**DEPARTMENT OF BOTANY & HORTICULTURE**  
 (Under Graduate, Post Graduate and Research Centre)

<b>Sr. No.</b>	<b>Class &amp; Semester</b>	<b>Course Name</b>	<b>Number &amp; Title of theory, practical and SEC papers</b>	<b>Link for Syllabus, POs, LOs and Outcomes</b>
	pattern			
13.	B.Sc. II Year Annual patrnr	SECB-II	<b>SECB-II</b>	
14.	B.Sc. III Year Semester-V	DSCB-I	<b>Theory Paper-XII:</b> Cell and Molecular biology	<a href="#">pdf</a>
15.	B.Sc. III Year Semester-V	DECB-I	<b>Theory Paper-XIII:</b> Systematic botany-I	
16.	B.Sc. III Year Semester-VI	DSCB-II	<b>Theory Paper-XIV:</b> Genetics and Plant breeding	
17.	B.Sc. III Year Semester-VI	DECB-II	<b>Theory Paper-XV:</b> Systematic botany-II	
18.	B.Sc. III Year Annual pattern	DSCBP-I	<b>Practical Paper-XVI:</b> Practicals based on Theory paper-XII & XIV	
19.	B.Sc. III Year Annual pattern	SECB-III	<b>SECB-III</b>	
20.	B.Sc. III Year Annual pattern	DECBP-I	<b>Practical Paper-XVII:</b> Practicals based on Theory paper-XIII & XV	
21.	B.Sc. III Year Annual pattern	SECB-IV	<b>SECB-IV</b>	

*(CCB= Core Course in Botany, CCBP= Core Course in Botany practical, SECB= Skill Enhancement Course in Botany, DSCB= Discipline Specific Course in Botany, DECB= Discipline Elective Course in Botany)*

**DEPARTMENT OF BOTANY & HORTICULTURE**  
(Under Graduate, Post Graduate and Research Centre)

**BOTANY (PG):**

**2. Details of the teaching programme for Botany (PG):**

<b>Sr. No.</b>	<b>Class &amp; Semester</b>	<b>Number &amp; Title of theory, practical courses</b>	<b>Link for Syllabus, POs, LOs and Outcomes</b>
1.	M.Sc. I Year Semester-I	<b>Theory Paper-I:</b> Biology and Diversity of Microbes and <b>Practicals:</b> Based on theory Paper-I	<a href="#">pdf</a>
2.	M.Sc. I Year Semester-I	<b>Theory Paper-II:</b> Biology and Diversity of Cryptogams and <b>Practicals:</b> Based on theory Paper-II	
3.	M.Sc. I Year Semester-I	<b>Theory Paper-III:</b> Taxonomy of Angiosperms and Gymnosperms and <b>Practicals:</b> Based on theory Paper-III	
4.	M.Sc. I Year Semester-I	<b>Theory Paper-IV:</b> Plant Anatomy and Embryology of Angiosperms and <b>Practicals:</b> Based on theory Paper-IV	
5.	M.Sc. I Year Semester-I	<b>Theory Paper-V:</b> Seminar / MOOCs (SWAYAM/NPTEL)	
6.	M.Sc. I Year Semester-II	<b>Theory Paper-VI:</b> Bioinstrumentation and Methods in Biology and <b>Practicals:</b> Based on theory Paper-VI	
7.	M.Sc. I Year Semester-II	<b>Theory Paper-VII:</b> Cell Biology, Genetics and Plant Breeding and <b>Practicals:</b> Based on theory Paper-VII	
8.	M.Sc. I Year Semester-II	<b>Theory Paper-VIII:</b> Plant Resource Utilization and Biodiversity Conservation and <b>Practicals:</b> Based on theory Paper-VIII	
9.	M.Sc. I Year Semester-II	<b>Theory Paper-IX:</b> Plant Ecology, Environmental Biology and Phytogeography and <b>Practicals:</b> Based on theory Paper-IX	
10.	M.Sc. I Year Semester-II	<b>Theory Paper-X:</b> Seminar / MOOCs (SWAYAM/NPTEL)	
11.	M.Sc. II Year Semester-III	<b>Theory Paper-XI:</b> Plant Physiology And <b>Practicals:</b> Based on theory Paper-XI	
12.	M.Sc. II Year Semester-III	<b>Theory Paper-XII:</b> Molecular biology Biostatistics	



Shri Sharda Bhavan Education Society's  
**YESHWANT MAHAVIDYALAYA, NANDED**

VIP Road, Nanded - 431 602 (M.S.) India  
 (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)  
 (Re-accredited by NAAC, as Grade 'A' College and a CPE status by UGC)



**DEPARTMENT OF BOTANY & HORTICULTURE**  
 (Under Graduate, Post Graduate and Research Centre)

<b>Sr. No.</b>	<b>Class &amp; Semester</b>	<b>Number &amp; Title of theory, practical courses</b>	<b>Link for Syllabus, POs, LOs and Outcomes</b>
		and <b>Practicals:</b> Based on theory Paper-XII	<a href="#">pdf</a>
13.	M.Sc. II Year Semester-III	<b>Theory Paper-XIII:</b> Angiosperms-I And <b>Practicals:</b> Based on theory Paper-XIII	
14.	M.Sc. II Year Semester-III	<b>Theory Paper-XIV:</b> Angiosperms-II And <b>Practicals:</b> Based on theory Paper-XIV	
15.	M.Sc. II Year Semester-III	<b>Theory Paper-XV:</b> Seminar / MOOCs (SWAYAM/NPTEL)	
16.	M.Sc. II Year Semester-IV	<b>Theory Paper-XVI:</b> Biochemistry and metabolism And <b>Practicals:</b> Based on theory Paper-XVI	
17.	M.Sc. II Year Semester-IV	<b>Theory Paper-XVII:</b> Biotechnology and genetic engineering and <b>Practicals:</b> Based on theory Paper-XVII	
18.	M.Sc. II Year Semester-IV	<b>Theory Paper-XVIII:</b> Angiosperms-III And <b>Practicals:</b> Based on theory Paper-XVIII	
19.	M.Sc. II Year Semester-IV	<b>Theory Paper-XIX:</b> Angiosperms-IV And <b>Practicals:</b> Based on theory Paper-XIX	
20.	M.Sc. II Year Semester-IV	<b>Theory Paper-XX:</b> Seminar / MOOCs (SWAYAM/NPTEL)	

**DEPARTMENT OF BOTANY & HORTICULTURE**  
(Under Graduate, Post Graduate and Research Centre)

**HORTICULTURE (UG):**

**3. Details of the teaching programme for Horticulture (UG):**

Sr. No.	Class & Semester	Course Name	Number & Title of theory, practical and SEC papers	Link for Syllabus, POs, LOs and Outcomes
1.	B.Sc. I Year Semester-I	CCH-I	<b>Theory Paper-I:</b> Fundamentals of Horticulture	<a href="#">pdf</a>
2.	B.Sc. I Year Semester-I	CCH-I	<b>Theory Paper-II:</b> Propagation and nursery management	
3.	B.Sc. I Year Semester-II	CCH-II	<b>Theory Paper-III:</b> Production technology of tropical and sub tropical fruit crops	
4.	B.Sc. I Year Semester-II	CCH-II	<b>Theory Paper-IV:</b> Production technology of arid, minor and plantation crops	
5.	B.Sc. I Year Annual pattern	CCHP-I	<b>Practical Paper-V:</b> Practicals based on theory papers-I,II,III,IV	
6.	B.Sc. II Year Semester-III	CCH-III	<b>Theory Paper-VI:</b> Production Technology of Vegetable Crops-I	<a href="#">pdf</a>
7.	B.Sc. II Year Semester-III	CCH-III	<b>Theory Paper-VII:</b> Ornamental and Landscape Gardening	
8.	B.Sc. II Year Semester-IV	CCH-IV	<b>Theory Paper-VIII:</b> Production Technology of Vegetable Crops-II	
9.	B.Sc. II Year Semester-IV	CCH-IV	<b>Theory Paper-IX:</b> Commercial Floriculture	
10.	B.Sc. II Year Annual pattern	CCHP-II	<b>Practical Paper-X:</b> Practicals based on Theory paper-VI,VIII	
11.	B.Sc. II Year Annual pattern	SECH-I	<b>SECH-I</b>	
12.	B.Sc. II Year Annual pattern	CCHP-III	<b>Practical Paper-XI:</b> Practicals based on Theory paper-VII,IX	
13.	B.Sc. II Year Annual pattern	SECH-II	<b>SECH-II</b>	
14.	B.Sc. III Year Semester-V	DSCH-I	<b>Theory Paper-XII:</b> Production Technology of	



Shri Sharda Bhavan Education Society's  
**YESHWANT MAHAVIDYALAYA, NANDED**

VIP Road, Nanded - 431 602 (M.S.) India  
 (Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)  
 (Re-accredited by NAAC, as Grade 'A' College and a CPE status by UGC)



**DEPARTMENT OF BOTANY & HORTICULTURE**  
 (Under Graduate, Post Graduate and Research Centre)

Sr. No.	Class & Semester	Course Name	Number & Title of theory, practical and SEC papers	Link for Syllabus, POs, LOs and Outcomes
			Spices and Condiment Crops	<a href="#">pdf</a>
15.	B.Sc. III Year Semester-V	DECH-I	<b>Theory Paper-XIII:</b> Post Harvest and Handling of Horticultural Crops	
16.	B.Sc. III Year Semester-VI	DSCH-II	<b>Theory Paper-XIV:</b> Production Technology of Medicinal and Aromatic Plants	
17.	B.Sc. III Year Semester-VI	DECH-II	<b>Theory Paper-XV:</b> Processing and Preservation Technology	
18.	B.Sc. III Year Annual pattern	DSCHP-I	<b>Practical Paper-XVI:</b> Practicals based on Theory paper-XII & XIV	
19.	B.Sc. III Year Annual pattern	SECH-III	<b>SECH-III</b>	
20.	B.Sc. III Year Annual pattern	DECHP-I	<b>Practical Paper-XVII:</b> Practicals based on Theory paper-XIII & XV	
21.	B.Sc. III Year Annual pattern	SECH-IV	<b>SECH-IV</b>	

*(CCH= Core Course in Horticulture, CCHP= Core Course in Horticulture practical, SECH= Skill Enhancement Course in Horticulture, DSCH= Discipline Specific Course in Horticulture, DECH= Discipline Elective Course in Horticulture)*