



4Y B.Sc. (Honours) (Major in Botany) (2025 Pattern) Programme

Minutes of the PAC Meeting held on 12.09.2024

Date: 12th Sept, 2024

Time: 11.30 am to 01.30 pm

The PAC Meeting for 4Y B.Sc. (Honours) (Major in Botany) (2025 Pattern) Programme as per NEP 2020 of **School of Sciences** was held online on **Thursday, 12-09-2024 at 11:30 AM** at school meeting hall. Following members and invitees were present in person,

01	Dr. Chetana Kamlaskar	(Chairperson) and Member
02	Dr. Prashant Gawande	Member
03	Dr. Dnyaneshwar Meera Shivaji Khandbahale	Member
04	Dr. Nitin Manohar Dongarwar	Member
05	Ms. Minakshi Kadel	Academic Coordinator (Botany Programme) and Invitee
06	Dr. Jagruti Chavan	Invitee
07	Mr. Ravindra Bharsat	Invitee
08	Ms. Tejaswi Kadam	Invitee

Following members could not attend the meeting due to their other engagements.

01	Dr. Sunanda More	Member
02	Dr. Dnyaneshwar Bhusanur	Invitee

Dr. Chetana Kamlaskar, Chairperson and Member of the PAC first welcomed PAC members and introduced the members about the purpose of the meeting. During the meeting following items were discussed.

S N	Details of Items	Resolution																
1	Agenda 1: To finalize and approve the detailed syllabus (Semester 01 to 03) related to Open Elective (OE) courses under Botany programme for other faculty, as per NEP2020 guidelines.	The PAC members unanimously finalized and approved the proposed Open Elective (OE) Courses along with their syllabus in the Botany discipline for the learners other than Botany Major, in accordance with NEP2020 guidelines. The PAC members provided the following suggestions: 1. It is recommended that the rearrange the sequence of open electives according to semester and few changes according to modify the syllabus. <table border="1" data-bbox="774 734 1399 1126"> <thead> <tr> <th>SN</th><th>SEM</th><th>Open Elective Sequence as per syllabus</th></tr> </thead> <tbody> <tr> <td>01</td><td rowspan="2">01</td><td>OE101: Biofertilizers</td></tr> <tr> <td>02</td><td>OE102: Mushroom Culture Technology</td></tr> <tr> <td>03</td><td rowspan="2">02</td><td>OE103: Nursery and Gardening</td></tr> <tr> <td>04</td><td>OE104: Floriculture</td></tr> <tr> <td>05</td><td>03</td><td>OE105: Herbal Drug Technology</td></tr> </tbody> </table> 2. The list of OE will be modified in the future as per demand of the learners.	SN	SEM	Open Elective Sequence as per syllabus	01	01	OE101: Biofertilizers	02	OE102: Mushroom Culture Technology	03	02	OE103: Nursery and Gardening	04	OE104: Floriculture	05	03	OE105: Herbal Drug Technology
SN	SEM	Open Elective Sequence as per syllabus																
01	01	OE101: Biofertilizers																
02		OE102: Mushroom Culture Technology																
03	02	OE103: Nursery and Gardening																
04		OE104: Floriculture																
05	03	OE105: Herbal Drug Technology																
	Action Taken: Programme structure and syllabus has been updated as per the discussion in PAC meeting. Refer Appendix I and II for the revised programme structure & syllabus.																	
2	Agenda 2: To discuss & finalize Discipline specific Indian Knowledge System (IKS) course position within the Botany programme structure. (Botany: Ayurveda and Herbal Preparation)	The PAC members unanimously finalized the name and position of the proposed discipline specific IKS Course at semester 03 entitled as ‘Botany: Ayurveda and Herbal Preparation, of the following proposed Botany programmes as per NEP2020 guidelines: i) 4 Year B.Sc. (Honours) (Major in Botany and Minor in Zoology) ii) 4 Year B.Sc. (Honours) (Major in Botany and Minor in Chemistry) The Following suggestions were made by the PAC members: 1. It is also suggested to introduce a new course ‘Fermentation Technology’ and to																

		be offered as Discipline Specific Elective (DSE) course in Semester 05. 2. It is also suggested to introduce a new course 'Agrotourism' and to be offered as Discipline Specific Elective (DSE) course in Semester 06. 3. Additionally, it is recommended that 'Skill Enhancement Course (SEC): Food Processing' in the form of Term Work (TW) be offered in Semester II.
	Action Taken: Syllabus has been updated as per the discussion in PAC meeting. Refer Appendix II for updated syllabus.	
3	Agenda 3: To finalize the courses and syllabus from last verticals (VSC, SEC, AEC, VEC, IKS, OJT, FP, CEP, CC, RP) that will be offered common for all 4Y UG B.Sc. (Honours) programmes of School of Sciences.	Few courses from the last verticals (SEC, AEC, VSC, IKS, CC, CEP etc.) that will be offered common for all programmes have been discussed and approved along with their syllabus. To finalize these courses at the university level, if required, the PAC members unanimously gave authority to the School Director to update the courses in accordance with the university decision as needed.
Action Taken: The syllabus has been updated as per the discussion in the PAC meeting. Refer Appendix II for updated syllabus.		
4	Agenda 4: Identification of Writers/Editors for SLM development task	The PAC members unanimously gave their consent for the writing/editing of the Self Learning Material (SLM) for the proposed B.Sc. (Honours) (Major in Botany) programme. For a few courses, the PAC members have given their consent for SLM development. They also agreed to recommend experts for the new courses, in due course of time. It was also resolved to authorize the Director of this School to enrich and update the list of writers/editors for the Self Learning Material (SLM) development task from time to time as per the University Policy decisions/norms.

Meeting ends with vote of thanks by **Ms. Minakshi B. Kadel**

Thanks...



(Dr. Chetana Kamlaskar)

Chairperson, PAC VXXX: B.Sc. (Honours) (Major in Botany)

APPENDIX I: PROGRAMME STRUCTURE CREDIT DISTRIBUTION BOTANY: MAJOR, ELECTIVES, MINOR, OE, VSC, IKS COURSES

Abbreviations: Yr.: Year; Sem.: Semester; Cumulative Credits: Cum. Cr. ; T- Theory Course; P- Practical course; TW-Term Work; PW- Project Work

Level	Sem	Major				Minor	OE		VSC, SEC (VSEC)		AEC, VEC, IKS		OJT, FP, CEP, CC, RP		Cum. Cr. / Sem	
		Mandatory		Electives												
4.5	I	BOT101: Evolution and Diversity of Algae, Fungi and Bryophytes (T)	4	-		-		OE101 : Biofertilizers	2	VSC101: Basic Instrumentation Skills (TW)	2	AEC101: English Communication Skills I (T)	2	CC101: Photography Techniques & Bird Watching (TW)	2	22
		BOT102: Evolution and Diversity of Algae, Fungi and Bryophytes (P)	2					OE102: Mushroom Culture Technology	2	SEC101: MS-EXCEL with AI (TW)	2	VEC101: Environmental Education I (T)	2			
	II	BOT103: Evolution and Diversity of Pteridophytes and Gymnosperms (T)	4	-		BOT103: Evolution and Diversity of Pteridophytes and Gymnosperms (T)	2	OE103: Nursery and Gardening	2	VSC102: Lab activities on BOT103 (P)	2	AEC102: English Communication Skills II (T)	2			
		BOT104: Evolution and Diversity of Pteridophytes and Gymnosperms (P)	2					OE104: Floriculture	2	BOT105: Food Processing (TW)	2	VEC102: Environmental Education II (T)	2			
Cum. Cr.		12		00		02		08		08		10		04		44
5.0	III	BOT201: Angiosperm Morphology, Taxonomy and Diversity (T)	4			BOT201:Angiosper m Morphology, Taxonomy and Diversity (T)	4	OE201 Herbal Drug Technology	2	VSC201: Lab activity on BOT201 (P)	2	AEC201: Modern Indian language I (T)	2	BOT204: Field Project (TW)	2	22
		BOT203: Ayurveda and Herbal Preparation (T) SPECIAL IKS	2											CC201: Applied Arts (TW)	2	
		BOT202: Angiosperm Morphology, Taxonomy and Diversity (P)	2													
	IV	BOT 205: Plant Physiology and Metabolism (T)	4			BOT204: Plant Physiology and Metabolism (T)	4	OE201: IPR (TW)	2	SEC201: Financial and Investment Skills (TW)	2	AEC202: Modern Indian language II (T)	2	BOT208: Bee Keeping (TW)	2	22
		BOT 206: Plant Physiology and Metabolism (P)	2											CC202: Astronomy for beginners (TW)	2	
		BOT207: Forestry (T)	2													
Cum. Cr.		28		00		10		12		12		14		12		88

Level	Sem	Major				Minor		OE		VSC, SEC (VSEC)		AEC, VEC, IKS		OJT, FP, CEP, CC, RP		Cum. Cr. / Sem
		Mandatory		Electives												
5-5	V	BOT301:Cell Biology & Genetics(T)	4	BOT304: Industrial & Environmental Microbiology(T) OR BOT305: Bioinformatics (T) OR BOT306: Fermentation Technology (T)	4	BOT301: Cell Biology & Genetics(T)	4			VSC207: Cell Biology & Genetics(P)	2			BOT307: FP OR BOT308 :CEP Awaerne ss of SDGs (TW)	2	22
		BOT302: Industrial Botany (T)	2													
		BOT303: Cell Biology & Genetics (P)	4													
	VI	BOT309: Analytical Techniques in Plant Science & Horticulture(T)	4	BOT312: Economic Botany (T) OR BOT313: Organic Farming OR BOT314: Agrotourism (T)	4	BOT309: Analytical Techniques in Plant Science & Horticulture(T)	4							BOT315: OJT (TW)	4	22
		BOT310: Stress Biology (T)	2													
		BOT 311: Analytical Techniques in Plant Science & Horticulture(P)	4													
Cum. Cr.		48		08		18		12		14		14		18		132

Level	Sem	Major				Minor		OE		VSC, SEC (VSEC)		AEC, VEC, IKS		OJT, FP, CEP, CC, RP		Cum . Cr. / Sem
		Mandatory		Electives												
6.0	VII	BOT401: Diversity of Non-Vascular Plants-I (T)		4	BOT406:Applied Phycology (T) OR BOT407: Tools and Techniques in Plant Science (T)		4	RES405: Research Methodology (T)		4			FP/CEP		2	22
		BOT402:Diversity of Non-Vascular Plants-II (T)		2												
		BOT403:Diversity of Vascular Plants &Paleobotany -I (T)		4												
		BOT404: Lab Activities on BOT401, BOT402 & BOT403 (P)		4												
	VIII	BOT409:Plant Physiology (T)		4	BOT415:Biotechnology & Molecular Biology (T) OR BOT416: Ecology and Phytogeography (T)		4						ZOO413: OJT		4	22
		BOT410: Herbal Wealth (T)		2												
		BOT411: Diversity of Vascular Plants and Paleobotany-II (T)		4												
		BOT412:Lab Activities on BOT409, BOT410 & BOT411 (P)		4												
Cum. Cr.		76		16		22		12		14		14		22		176

