यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ, नाशिक



Yashwantrao Chavan Maharashtra Open University, Nashik

NAAC Accredited 'A' Grade

ज्ञानगंगोत्री, गंगापूर धरणाजवळ, गोवर्धन नाशिक – ४२२ २२२ (महाराष्ट्र) भारत

नॅक मानांकित 'अ' श्रेणी

Dnyangangotri, Near Gangapur Dam, Govardhan Nashik - 422 222 (Maharashtra) India

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विज्ञान विद्याशाखा / School of Sciences

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

Minutes of the PAC Meeting held on 13.06.2024

Date: 13th June, 2024 Time: 09.00 am to 04.30 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 offline & online on **Thursday, 13-06-2024 at 09:00 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. Dnyaneshwar Bhusanur	Invitee
07	Dr. Jagruti Chavan	Invitee
08	Mr. Ravindra Bharsat	Invitee
09	Dr. Bharat More	Invitee
10	Mr. Nandkishor Sangle	Invitee
11	Ms. Tejaswi Kadam	Invitee

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

01	Dr. Sunanda More	Member
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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.

SN	Details of Items	Resolution									
1	Agenda 1: To finalize and approve proposed B.Sc. (Honours) (Major in Botany) programme - credit distribution details, second and third year (semester 03 to 06) and their evaluation pattern for all first, second and third year courses at semester 01 to 06	approved the proportion of the	rs unanimously finalized and osed programme structure and letails for all second- and third-ester 03 to 06 detailed syllabus Minor courses of Botany and for all first, second- and third-ester 01 to 06 of the following per NEP2020 guidelines, with about courses in programme								
		and Minor in 2	c. (Honours) (Major in Botany								
		For Major in Botany programmes, the follow Suggestions are given by the PAC members 1. In the First year and second (Semester 01 and 04) of proposed programme, PAC members has suggestions for SEM I to SEM IV while given below:									
		given below: Suggestions by PAC members:									
		Old Course Title	Suggested and Finalized Course Title by PAC members								
		SEM I BOT101: Plant Diversity (T)	SEM I BOT101: Evolution and Diversity of Algae, Fungi and Bryophytes (T)								
		SEM I BOT102: Plant Diversity (P)	SEM I BOT102: Evolution and Diversity of Algae, Fungi and Bryophytes (P)								
		SEM II BOT103: Plant Ecology & Taxonomy (T)	SEM II BOT103: Evolution and Diversity of Pteridophytes and Gymnosperms (T)								
		SEM II BOT104: Plant Ecology & Taxonomy (P)	SEM II BOT104: Evolution and Diversity of Pteridophytes and Gymnosperms (P)								
		SEM III BOT201: Diversity &	SEM III BOT201: Angiosperm Morphology, Taxonomy and Diversity (T)								

		Morphology of	
		Angiosperms (T)	
		SEM III	SEM III
		BOT202:	BOT202: Angiosperm
		Diversity &	Morphology, Taxonomy
		Morphology of	and Diversity (P)
		Angiosperms (P)	
		SEM IV	SEM IV
		BOT204: Plant	BOT204: Plant Physiology
		Systematic	and Metabolism (T)
		Algae, Fungi,	
		Bryophytes (T)	
		SEM IV	SEM IV
		BOT205: Plant	BOT205: Plant Physiology
		Systematic	and Metabolism (P)
		Algae, Fungi,	
		Bryophytes (P)	
		the revised cours of each course suggestions and appendix II syllab	the same are attached in the
			lab activity with addition of
		some pra	
			suggested that course content
			r shall be used for providing
			as Minor.
	Action Taken: Programme structure		
	in PAC meeting. Refer Appendix I for updated syllab	-	
2	Agenda 2: Finalization and		pers unanimously finalized and
	approval of Syllabus of Elective		syllabus of the proposed
	courses (DSE), OE/VSC courses		ses of Botany with few
	etc related to Botany		hich were retained after the
			he programme structure.
		Elective	content for the following courses: BOT304, BOT309 T310: it suggests to enriched
			borate the syllabus by PAC
			5: This course will be modified
			rashant Gawande sir
		2. The selection of	of OE/VSC courses related to
		Botany have b	een discussed and approved
		_	leliberations among all PAC
		members.	<i>5</i>
<u> </u>			

	Action Taken: Syllabus has been up	OE/VSC courses etc. related to Botany have been discussed and in which some courses are suggested which will be open for all faculties. The detail discussion regarding OE/VSC will be finalised in next PAC meeting. The PAC members Suggested OE course title are given below: - i. Herbal Technology ii. Nursery and Gardening iii. Mushroom Culture Technology iv. Bio fertilizers v. Horticulture dated as per the discussion in PAC meeting.
	Refer Appendix II for updated sylla	=
3	Agenda 3: Framing guidelines for	The PAC members agreed to guide time to time
	OJT/FP and RP Courses	regarding the OJT/FP and RP courses. A booklet of OJT/FP will be proposed by School of Sciences for all UG courses, which will be finalized in due course of time. It was also resolved to authorize the Director of this School to enrich and update the OJT, Field Project (FP), and Research Project (RP) guidelines from time to time as per the University Policy decisions/norms.
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 **Dr. Jagruti Chavan.** Thank You

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(Dr. Chetana Kamlaskar)

Chairperson, PAC 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

		Major														OJT, FP,		Cum.
Level	Sem	Mandatory		Electives	Minor		OE		V	SC, SEC	(VSEC)		AEC, V	VEC, IK	S	CEP, CC, RP		Cr. / Sem
		BOT101: Evolution and Diversity of Algae, Fungi and Bryophytes (T)	4				(BOT) OE-I		2			2			2			
	I	BOT102: Evolution and Diversity of Algae, Fungi and Bryophytes (P)	2	-	-		(BOT) OE-II		2			2	IKS101: Indian		2 2		2	22
4.5	II	BOT103: Evolution and Diversity of Pteridophytes and Gymnosperms (T)	4	-	BOT103: Evolution and Diversity of Pteridophytes		(BOT)OE-III	:	2 Rte	C102: Evo nd Diversi eridophyte mnospern	ty of s and	2			2		2	22
		BOT104: Evolution and Diversity of Pteridophytes and Gymnosperms (P)	2		and Gymnosperms (T)		(BOT)OE-IV		2			2			2			
Cum.	Cr.	12		00	02		08			08	,			10		04		44
	III	BOT201: Angiosperm Morphology, Taxonomy and Diversity (T) BOT202: Angiosperm Morphology, Taxonomy and Diversity (P)	2		BOT201:Angiosper m Morphology, Taxonomy and	4	(BOT)OE-V	9 T	/SC201:A rm Morpl Taxonom	nology, ny and	2			2	Field	Project	2	22
- 0	-	BOT203: Floriculture(T)	2		Diversity (T)				Diversit	y (P)							2	1
5.0		BOT 204: Plant Physiology and Metabolism (T)	4		BOT204: Plant												2	
	IV	BOT 205: Plant Physiology and Metabolism (P)	2		Physiology and Metabolism (T)	4	IPR	2			2			2			2	22
<u> </u>	C	BOT206: Forestry (T)	2															00
Cum.	cr.	28		00	10		12		1	2			14			12		88

		Ma	jor								AEC,	OJT, FP	,	Cum.
Level	Sem	Mandatory		Electives		Minor		OE	VSC, SEC (VSE	C)	VEC, IKS	CEP, CC, RP		Cr. / Sem
		BOT301:Cell Biology & Genetics(T)	4	BOT304: Industrial &					Vicco o = Call					
	V	BOT302: Industrial Botany (T)	2	Environmental Microbiology(T) OR BOT305: Bioinformatics (T) BOT309: Economic Botany		BOT206: Cell Biology & Genetics(T)	4		VSC207: Cell Biology & Genetics(P)	2		FP/CEP	2	22
		BOT303: Cell Biology & Genetics (P)	4						Genetics(1)					
5.5		BOT306: Analytical Techniques in Plant Science & Horticulture(T)	4			BOT306: Analytical								
	VI	BOT307: Stress Biology (T)	2	(T) OR	4	Techniques in Plant Science &	4					OJT	4	22
		BOT 308: Analytical Techniques in Plant Science & Horticulture(P)	4	BOT310: Organic Farming	OK -									
Cum.	Cr.	48		08		18		12	14		14	18		132
											'	1		

_		Major							VSC, S	EC AEC	VEC,	OJT, FP,	CEP.	Cum . Cr.
Level	Sem	Mandatory		Electives		Minor		OE	(VSEC		KS ,	CC, R		/ Sem
		BOT401: Diversity of Non-Vascular Plants-I (T)	4	BOT406:Applied Phycology		RES405:								
	VII	BOT402:Diversity of Non-Vascular Plants-II (T)	2	(T) OR	_	Research Methodology	4					FP/CEP	2	22
	VII	BOT403:Diversity of Vascular Plants & Paleobotany -I (T)	4	BOT407: Tools and Techniques in Plant Science	4	(T)						FI/CEI	2	22
6.0		BOT404: Lab Activities on BOT401, BOT402 & BOT403 (P)	4	(T)										
		BOT409:Plant Physiology (T)	4	BOT415:Biotechnology &										
	VIII	BOT410: Herbal Wealth (T)	2	Molecular Biology (T) OR								Z00413:	_	22
	VIII	BOT411: Diversity of Vascular Plants and Paleobotany- II (T)	4	BOT416: Ecology and Phytogeography (T)	4							OJT	4	22
		BOT412:Lab Activities on BOT409, BOT410 & BOT411 (P)	7 - 0 - 0 - 1 7 ()											
Cum. (Cr.	76	16		22		12	14	1	4	22		176	
														_

	_	BOT101: Evolution and Diversity					0.7					. ~ -		OJT, FP,		Cum.
Level	Sem	Mandatory	Elect	ives	Minor		OE		VSC, SEC (VSE	C) AEC, VE	C, I	KS	CEP, CC, RP		Cr. / Sem
	T	of Algae, Fungi and Bryophytes (T)	4				(BOT) OE-I		2		2			2 CC101:	0	22
4.5		(P)	2		-		(BOT) OE-II		2		2 IKS101: An Indian Bo			Yoga (TW)	2	22
4.9	II	Gymnosperms (T)	of Pteridophytes and Gymnosperms (T) 4 Comparative Anatomy & Developmental Comparative Anatomy & Developmental		(BOT)OE-III	2	VSC102: Lab Ao ZOO103 (F					2 CC102: Drawing &	2	22		
			2		Developmental Biology Vertebrates(T)	_	(BOT)OE-IV		2		2			Sketching (TW)	_	
Cum.	Cr.	r. 12 00 02		08		08		10	•		04		44			
Ex	Exit option: Award of UG Certificate in		TANY as	Major	with 44 credits and		additional 4 cre	dits	core NSQF cours	e/ I	nternship OR Con	tinu	e wit	h Major and M	lino	r•
		BOT201: Angiosperm Morphology, Taxonomy and Diversity (T)	4		Z00201:				VSC201: Lab				F.	ield Project	2	
	III	BOT202: Angiosperm Morphology, Taxonomy and Diversity (P)	2		Animal Physiology & Ecology (T)	4	(BOT)OE-V	2	Activity on Animal Physiology and	2	AEC201:Modern Indian Language- 1 (T)	1		•	_	22
5.0		BOT203: Floriculture(T)	2		Ecology (1)				Physiology and Ecology (P)					CC201: ference & Event agement (TW)	2	
		BOT 204: Plant Physiology and Metabolism (T)	4		ZOO204: Genetics &				SEC201:		AEC202: Modern			CEP	2	
	IV	BOT 205: Plant Physiology and Metabolism (P)	Plant Physiology and Evolutionary 4 IPR		IPR	2	Financial & Investment Skills (TW)	2	Indian Language – 2 (T)	2		CC202: Personality &	2	22		
		BOT206: Forestry (T)										Care	eer Skills (TW)			
Cum.	Cr.	28	00	10		12		12		14			12		88	
Exit op	tion: Av	ward of UG Diploma in BOTANY a	TANY as Minor w		88 credits and an nd Minor	add	itional 4 credits c	ore	NSQF course/ Int	erns	ship (OR Continue w	rith I	Major		

		Major							VSC, SEC	A	AEC, VEC,	OJT, FP	,	Cum.
Level	Sem	Mandatory		Electives		Minor		OE	(VSEC)	71	IKS IKS	CEP, CC, RP		Cr. / Sem
		BOT301:Cell Biology & Genetics(T)	4	BOT304: Industrial & Environmental		700004			VSC207: Lab					
	V BOT302: Industrial Botany (T)		2	Microbiology(T) OR	4	ZOO301: Mammalian	4		Activity on Mammalian Histology (P)	2		FP/CEP	2	22
		BOT303: Cell Biology & Genetics (P)	4	BOT305: Bioinformatics (T)	Histology (T)			Thistology(1)						
5.5		BOT306: Analytical Techniques in Plant Science & Horticulture(T)	4	BOT309: Economic Botany		700aa - Dari								
	VI	BOT307: Stress Biology (T)	2	(T)		ZOO307: Pest Management & Parasitology (T)	4					OJT	4	22
	BOT 308: Analytical Techniques in Plant Science & Horticulture(P)	4	BOT310: Organic Farming		Turusitology (1)									
Cum	ı. Cr.	48		08		18		12	14		14	18		132
Cum	m. Cr. 48			08					14		14	18		L

Exit option: Award of UG Degree in BOTANY as Major with 132 credits OR Continue with Major and Minor

Leve 1	Sem	Major Mandatory		Electives		Minor		OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP CEP, CC, RP		Cum. Cr. / Sem					
		BOT401: Diversity of Non-Vascular Plants-I (T)	4	BOT406:Applied		RES405:												
	VII	BOT402:Diversity of Non-Vascular Plants-II (T)	2	Phycology (T) OR	4	Research Methodology	4					2	22					
	V 11	BOT403: Diversity of Vascular Plants & Paleobotany -I (T)	4	BOT407: Tools and Techniques in Plant	7	(T)												
6.0		BOT404: Lab Activities on BOT401, BOT402 & BOT403 (P)	4	Science (T) BOT415:Biotechnology & Molecular Biology														
		BOT409:Plant Physiology (T)	4								700 440							
	VIII	BOT410: Herbal Wealth (T)	2	(T) OR	4						ZOO413: OJT	4	22					
		BOT411: Diversity of Vascular Plants and Paleobotany-II (T)	4	BOT416: Ecology and Phytogeography (T)	-												-	
		BOT412:Lab Activities on BOT409, BOT410 & BOT411 (P)	,88, (-)															
Cum.	Cr.	76		16		22		12	14	14	22		176					
		Four Veer	IIG I	Langurs Degree in M	Tain	r and Minor wit	h 17	6 cradite										

Four Year UG Honours Degree in Major and Minor with 176 credits

Programme Structure: B.Sc. (Honours) (Major in Botany and Minor in Chemistry) (2024 Pattern)

		Major														OJT, FP,		Cum.
Level	Sem	Mandatory		Electives	s	Minor		OE			VSC, SEC (VSEC)	AEC,	VEC	C, IKS	CEP, CC, RP		Cr. / Sem
		BOT101: Evolution and Diversity of Algae, Fungi and Bryophytes (T)	4					(BOT) OE-I		2	VSC101:Basic Instrumentation Skills (TW)	2		nicati T)	ion -1 2	CC101:		
	I	BOT102: Evolution and Diversity of Algae, Fungi and Bryophytes (P)	2	-		-		(BOT) OE-II		2	SEC101: IT & e-Learning Skills (TW)	2	VEC10 Educat IKS101: Ayurva	tion (Biol	ogy in	Yoga (TW)	2	22
4.5	п	BOT103: Evolution and Diversity of Pteridophytes and Gymnosperms (T)	4	-		CHE103: Physical & Organic	2	(BOT)OE-III		2	VSC102: Lab Activity on Physical & Organic Chemistry-I (P)	2	AEC102 Commun			CC102: Drawing & Sketching	2	22
		BOT104: Evolution and Diversity of Pteridophytes and Gymnosperms (P)	2			Chemistry-I (T)		(BOT)OE-IV		2	SEC102: Solar Panel System (TW)	2	VEC Enviro Scien	nmei	ntal	(TW)		
Cum.	Cr.	12		00		02		08			08	ı		10	'	04		44
]	Exit opt	ion: Award of UG Certificate in BOTA	NY	as Major	wit	h 44 credits an	d ar	n additional 4 cre	dits o	core	e NSQF course/ Inte	rnsh	ip OR Cont	tinu	e with Maj	or and Mind	or	
	III	ROT202: Angiosperm Morphology	2		Phys	CHE301: sical & Organic Chemistry-II	4	(BOT)OE-V	2	A P			1:Modern anguage –	2	Field	Project	2	22
5.0			2			(T)				Ch	nemistry-II (P)		(T)		Conferer	C201: nce & Event nent (TW)	2	
		BOT 204: Plant Physiology and Metabolism (T)	4			CHE304:					SEC201: AE	C20:	2: Modern		CEI	P(TW)	2	
	IV	Metabolism (P)	2			Analytical hemistry (T)	4	IPR	2 I			ian L	anguage – (T)	2	Personal	C202: ity & Career s (TW)	2	22
Cum.	Cr.	28	_	00		10		12			12		14		OKIII	12	Щ	88
		vard of UG Diploma in BOTANY as Ma	nior		EMIS		wit		n ad	lditi		NSO.		nter	nship OR		th 1	
p			J					1 74'			7 7 30101	~ ~			P			

and Minor

		Major								AEC,	OJT, FP,		Cum. Cr./
Level	Sem	Mandatory		Electives		Minor		OE	VSC, SEC (VSEC)	VEC, IKS	,	CEP, CC, RP	
		BOT301:Cell Biology & Genetics(T)	4	BOT304: Industrial & Environmental		CHE206: Physical &			VSC207: Lab Activity on				
	v	BOT302: Industrial Botany (T)	2	Microbiology(T) OR	4	Inorganic Chemistry (T)	4		Physical & Inorganic 2		FP/CEP	2	22
		BOT303: Cell Biology & Genetics (P)	4	BOT305: Bioinformatics (T)					Chemistry (P)	2 FP/CEF			
5.5		BOT306: Analytical Techniques in Plant Science & Horticulture(T)	4	BOT309: Economic Botany (T) OR BOT310: Organic Farming	4	CHE306: Green Chemistry (T)	4						
,	VI	BOT307: Stress Biology (T)	2								OJT	4	22
		BOT 308: Analytical Techniques in Plant Science & Horticulture(P)	4										
Cum. Cr.		48		08		18		12	14	14	18		132

Exit option: Award of UG Degree in **BOTANY** as Major with 132 credits OR Continue with Major and Minor

	Se	Major			Minon		OE	VSC, SEC	AEC, VEC,		OJT, FP, CEP,		Cum. Cr. /	
	m	Mandatory	Electives		Minor		OE	(VSEC)	IKS		CC, RP		Sem	
6.0	VII	BOT401: Diversity of Non-Vascular Plants-I (T)	BOT406:Applied		RES405: Research Methodology (T)	4								
		BOT402:Diversity of Non-Vascular Plants-II (T)	Phycology (T) OR	4								2	22	
		BOT403:Diversity of Vascular Plants & Paleobotany - I (T)		4										
		BOT404: Lab Activities on BOT401, BOT402 & BOT403 (P)												
	VIII	BOT409:Plant Physiology (T)	OR BOT416: Ecology and											
		BOT410: Herbal Wealth (T)		4							BOT 413:	4	22	
		BOT411: Diversity of Vascular Plants and Paleobotany-II (T)									OJT		22	
		BOT412:Lab Activities on BOT409, BOT410 & BOT411 (P)	Phytogeography (T)											
Cum. Cr.		76	16		22		12	14	14		22		176	
Four Year UG Honours Degree in Major in BOTANY and Minor in CHEMISTRY with 176 credits														

APPENDIX II:

SYLLABUS OF B.SC. (HONOURS) (BOTANY AS MAJOR)

Refer the syllabus file attached with this mail separately.

APPENDIX III:

SYLLABUS OF B.SC. (HONOURS) (BOTANY AS MINOR)

Refer the syllabus file attached with this mail separately

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