

**Kanya Maha Vidyalaya
Jalandhar
(An Autonomous College)**



**Minutes of 10th Meeting of Board of Studies
Department of Botany**

Date: 29-05-2025

Time: 10:00 A.M

Venue: Online (Through Zoom App)

KANYA MAHA VIDYALAYA, JALANDHAR
(UGC Autonomous College)
P.G Department of Botany
Agenda of the Ninth Meeting of Board of studies

The 10th Meeting of Board of Studies will be held on 29th May 2025 at 10:00 am in on-line mode on Zoom.

Following Members of the Board of Studies are invited to attend the meeting:

1.	Mrs. Shikha Vashisht , Head, Department of Botany, KMV Jalandhar	Chairperson
2.	Dr. Satwinderjeet Kaur , Professor, Department of Botanical and Environment Sciences, GNDU, Amritsar	University Nominee
3.	Dr. Amrik Singh Ahluwalia, Ex-Professor, Department of Botany, Panjab University, Chandigarh. Pro-Vice Chancellor	Outside GNDU
4.	Dr. C. Nirmala, Professor, Department of Botany, Panjab University, Chandigarh	Outside GNDU
5.	Mr. Sukhjeet Singh Cheema, M.D. Pukhraj Organic, Jalandhar	Industrial Representative
6.	Ms. Naincy	Alumni
7.	Mrs. Deepika Vats, Assistant Professor, Department of Botany, KMV Jalandhar	Member
8.	Dr. Sandeep Kaur, Assistant Professor, Department of Botany, KMV Jalandhar	Member

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Agenda of 10th Meeting of Board of Studies

The Chairperson, Mrs. Shikha Vashisht, extended a warm welcome and introduced the members of the Tenth Board of Studies. She informed the members about various events organized by the department aimed at enriching teaching and learning experiences. Additionally, she shared updates on the department's ongoing research activities. Following this brief overview, she proceeded to discuss the agenda items individually, with the consent of the committee members.

Item: BOT: 2025:10:1 To discuss and approve the proceedings of Ninth BOS held on 19th April 2024 and Action Taken Report.

Proceedings: The Chairperson sent the proceedings of the previous Board of Studies meeting held on 19th April 2024 through email to all the members and were approved by all the members. The Chairperson however again put up the summary of the proceedings for approval of the house and they approved it through Zoom meeting.

Action Taken Report (ATR)
On
Ninth Board of Studies Meeting held on 19.04.2024

Sr.No.	Agenda Item	Decision taken in Meeting	Action Taken												
<u>Item No.:</u> <u>BOS-9-202</u>	To approve the proceedings of eighth BOS held on 17.06.2023 and discuss the action taken report.	1. House approved the proceedings of seventh BOS and appreciated the implementation of proceedings of previous BOS as given in action taken report.	Suggestions implemented.												
<u>Item No.:</u> <u>BOS-9-202</u>	To discuss the proposed Scheme of Bachelor of Science (Medical)/Honours Semester I -II under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment under NEP 2020 for the	1. The House approved Bachelor of Science (Medical)/Honours with total 229 credits . The course scheme approved for B.Sc. Medical/Honours Sem. I-VIII under Credit Based Continuous Evaluation Grading System for the session 2024-28 is as follows: <table border="1"><thead><tr><th colspan="3">Bachelor of Science/Honours (Medical)</th></tr><tr><th></th><th>SEMESTER-I</th><th></th></tr><tr><th>Course Type</th><th>List of Courses</th><th>Credits</th></tr></thead><tbody><tr><td>Discipline</td><td>• Zoology</td><td>4-0-2</td></tr></tbody></table>	Bachelor of Science/Honours (Medical)				SEMESTER-I		Course Type	List of Courses	Credits	Discipline	• Zoology	4-0-2	The same has been incorporated and the approved syllabus is executed.
Bachelor of Science/Honours (Medical)															
	SEMESTER-I														
Course Type	List of Courses	Credits													
Discipline	• Zoology	4-0-2													

	session 2024-25.	Specific Courses	(Diversity of Nonchordates-I) (Protozoa- Annelids) • Chemistry (Inorganic Chemistry I: Atomic Structure and Periodic Table) • Botany (Diversity of Cryptogams)	4-0-2 4-0-2
		Compulsory Course	• Punjabi(Compulsory-I) • ¹ BasicPunjabi-I • ² Punjab History and Culture (From Earliest Time to C 320)	4-0-0
		Ability Enhancement Course	English Language Skills-1	4-0-0
		Value Added Course	Foundation Course	2-0-0
				Total Credits: 28
			SEMESTER-II	
		Discipline Specific Courses	• Zoology (Diversity of Nonchordates-II) (Arthropoda-Hemichordata) • Chemistry (Organic Chemistry-I) (Hydrocarbons and Alkyl Halides) • Botany (Cell Biology and Genetics)	4-0-2 4-0-2 4-0-2
		Compulsory course	• Punjabi(Compulsory-2) • ¹ BasicPunjabi-2 • ² Punjab History and Culture (C 320 to 1000 A.D.)	4-0-0
		Multi-Disciplinary Course	Appreciating English Literature-1	4-0-0
		Skill Enhancement Course	Chemistry/Aquaculture /Medicinal Botany	2-0-1
		Value Added	Drug Abuse: problem,	2-0-0

		Course	management and prevention (Compulsory-1)		
				Total Credits- 31	
			SEMESTER-III		
		Discipline Specific Courses	• Zoology (Diversity of Chordates) • Chemistry (Physical Chemistry-I: States of Matter and Electrochemistry) • Botany (Diversity of Phanerogams)	4-0-2 4-0-2 4-0-2	
		Compulsory Course	• Punjabi(Compulsory-3) • ¹BasicPunjabi-3 • ²Punjab History and Culture (From 1000 to 1605 A.D.)	4-0-0	
		Ability Enhancement Course	English Language Skills-2	4-0-0	
		Value Added Course	Gender Sensitization	2-0-0	
				Total Credits: 28	
			SEMESTER-IV		
		Discipline Specific Courses	• Zoology (Cell Biology) • Chemistry (Inorganic Chemistry-II: Periodic table and Coordination Chemistry) • Botany (Structure, Development and Reproduction in Flowering Plants)	4-0-2 4-0-2 4-0-2	
		Compulsory course	• Punjabi(Compulsory-4) • ¹BasicPunjabi-4 • ²Punjab History and Culture (From 1605 to 1849 A.D.)	4-0-0	

		Multi-Disciplinary Course	Appreciating English Literature-2	4-0-0
		Skill Enhancement Course	Chemistry/Apiculture/Gardening Techniques	3-0-0
		Value Added Course	Environmental Studies (Compulsory)	2-0-0
				Total Credits: 31
			SEMESTER-V	
		Discipline Specific Courses	• Zoology (Biomolecules)	4-0-2
			• Chemistry (Organic Chemistry-II: Chemistry of O/N containing compounds)	4-0-2
			• Botany (Plant Physiology and Biochemistry)	4-0-2
		Compulsory Course	- Punjabi(Compulsory-5) ¹BasicPunjabi-5 ²Punjab History and Culture (From 1849 to 1947 A.D.)	4-0-0
		Ability Enhancement Course	English Language Skills-3	4-0-0
		Value Added Course	Personality Development	2-0-0
		Internship	Summer Internship (02 Weeks)	0-0-2
				Total Credits: 30
			SEMESTER-VI	
		Discipline Specific Courses	• Zoology (Animal Physiology)	4-0-2
			• Chemistry (Physical Chemistry-II: Thermodynamics and Equilibrium)	4-0-2
			• Botany (Ecology)	4-0-2
		Compulsory course	- Punjabi(Compulsory-6) ¹BasicPunjabi-6	4-0-0

			2 Punjab History and Culture (From 1947 to 2000 A.D.)		
		Multi-Disciplinary Course	Appreciating English Literature-3	4-0-0	
		Skill Enhancement Course	Organic Chemistry-III: Spectroscopic Methods/Medical Lab Technology/General Microbiology	2-0-1	
		Value Added Course	Social Outreach/ Human Rights	2-0-0	
				Total Credits: 31	
			SEMESTER-VII		
		Discipline Specific Courses B.Sc. (Honours) Chemistry	Physical Chemistry-III: Chemical kinetics Organic Chemistry-IV: Structure-reactivity relationship Inorganic Chemistry-III: Organometallics Physical Chemistry-IV: Thermodynamics of biopolymer solution Organic Chemistry-III: Lab Preparations-II Physical Chemistry-III: Lab	3-0-0 3-0-0 3-0-0 3-0-0 0-0-2 0-0-2	
		Discipline Specific Courses B.Sc. (Honours) Botany	- Phycology - Phycology Lab - Fungi and Plant Pathology - Fungi and Plant Pathology Lab - Bryology - Bryology Lab - Pteridology - Pteridology Lab	4-0-0 0-0-1 4-0-0 0-0-1 4-0-0 0-0-1 4-0-0 0-0-1	
		Discipline Specific	Functional Organisation	3-0-0	

		Courses B.Sc. (Honours) Zoology	of Animals-I • Functional Organisation of Animals-I Lab • Biochemistry • Biochemistry Lab • Developmental Biology • Developmental Biology Lab • Genetics • Genetics Lab	0-0-1 3-0-0 0-0-1 3-0-0 0-0-1 3-0-0 0-0-1
		Minor B.Sc. (Honours) Chemistry B.Sc. (Honours) Botany B.Sc. (Honours) Zoology	Synthesis and characterization of materials Genetics and Evolution Genetics and Evolution Lab Ecology Ecology Lab	4-0-0 3-0-0 0-0-1 3-0-0 0-0-1
		Internship	Summer Internship/ Community Outreach/ Field Study	0-0-2
				Total Credits: 26
			SEMESTER-VIII	
		Discipline Specific Courses Chemistry	• Inorganic Chemistry-IV: Cluster and cage compounds • Organic Chemistry-V: Organic synthesis-I • Inorganic Chemistry-V: Nuclear chemistry • Physical Chemistry-V: Electroanalytical techniques • Inorganic Chemistry-III: Lab	4-0-0 4-0-0 3-0-0 3-0-0 0-0-2
		Discipline	• Diversity and	4-0-0

Specific Courses	Botany	- Biology of Gymnosperms • Diversity and Biology of Gymnosperms Lab • Diversity and Biology of Angiosperms • Diversity and Biology of Angiosperms Lab • Plant Breeding • Plant Breeding Lab • Plant Metabolism • Plant Metabolism Lab	0-0-1 4-0-0 0-0-1 4-0-0 0-0-1 4-0-0 0-0-1
	Discipline Specific Courses B.Sc. (Honours) Zoology	• Functional Organisation of Animals- II • Functional Organisation of Animals- II Lab • Economic Entomology • Economic Entomology Lab • Applied Zoology (Non Chordates) • Applied Zoology (Non Chordates) Lab • Evolution • Evolution Lab	3-0-0 0-0-1 3-0-0 0-0-1 3-0-0 0-0-1 0-0-1
	Minor B.Sc. (Honours) Chemistry	Atomic and Molecular Spectroscopy	4-0-0 3-0-0 0-0-1
	B.Sc. (Honours) Botany	Applied Botany	3-0-0 0-0-1
	B.Sc. (Honours) Zoology	Applied Botany Lab Medical Zoology Medical Zoology Lab	
			Total Credits: 24
Exit Option 1: NHEQF Level 7: After successful completion of 3 years (6 semesters) Exit Option 2: NHEQF Level 8: After successful completion of 4 years (8 semesters)			

As per Academic Council, the internal assessment
for Bachelor of Science (Medical)/Honours
Semester I –II was raised from 20% to 30%.

B.Sc (Medical) Semester I				
Course Code	Course Name	Course Type	Credits	Total Marks
BSML-1421	Punjabi (Compulsory)	C	4	100
BSML-1031	¹ Basic Punjabi			
BSML-1431	² Punjab History and Culture			
BSML-1212	English Language Skills-1	AEC	4	100
BSML-1483	Zoology (Diversity of Nonchordates- I) (Protozoa - Annelida)	DSC	4	100
BSMP-1483	Nonchordates- I Lab		2	50
BSML-1084	Chemistry (Inorganic Chemistry-I: Atomic Structure and Periodic Table)	DSC	4	100
BSMP-1084	Inorganic Chemistry-I: Lab Qualitative Analysis		2	50
BSML-1075	Botany (Diversity of Cryptogams)	DSC	4	100
BSMP-1075	Diversity of Cryptogams Lab		2	50
*VACF-1491	Foundation Course	VAC	2	50

¹Special paper in lieu of Punjabi (Compulsory) for those who have not studied Punjabi upto 8th-10th Class.

²Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.

*Credits grade points of these courses will not be added in SGPA/CGPA of the semester Program and only grades will be provided.

C-Compulsory

AEC- Ability Enhancement Compulsory Course

DSC- Discipline Specific Course

VAC- Value Added Course

B.Sc. (Medical) Semester II							
Course Code	Course Name	Course Type	Credits	Total Marks	Ext.		C A
					L	P	
BSML-2421	Punjabi (Compulsory)	C	4	100	70	-	30
BSML-2031	¹ Basic Punjabi						
BSML-2431	² Punjab History and Culture						
BSML-2212	English Language And Literature-I	MD C	4	100	70		30
BSML-2483	Zoology (Diversity of Nonchordates- II) (Arthropoda - Hemichordata)	DSC	4	100	70		30
BSMP-2483	Nonchordates- II Lab		2	50	-	35	15
BSML-2084	Chemistry (Organic Chemistry-I: Hydrocarbons and alkyl Halides)	DSC	4	100	70		30
BSMP-2084	Organic Chemistry-I: Lab Functional group analysis		2	50	-	35	15
BSML-2075	Botany (Cell Biology and Genetics)	DSC	4	100	70		30
BSMP-2075	Cell Biology and Genetics Lab		2	50	-	35	15
BSMM-2080/ BSMM - 2480/ BSMM - 2070	Chemistry/ Aquaculture/ Medicinal Botany	SEC	3	100	50	20	30
VACD-2161	*Drug Abuse: Problem, Management and Prevention (Compulsory)	VAC	2	50	35	-	15

¹**Specia I** paper in lieu of Punjabi (Compulsory) for those have not studied Punjabi upto 8th-10th Class.

²Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.

*Credits grade points of these courses will not be added in SGPA/CGPA of the semester Program and only grades will be provided.

** Student can opt any one of the given courses.

		C-Compulsory MDC- Multidisciplinary Course DSC- Discipline Specific Course SEC- Skill Enhancement Course VAC- Value Added Course																																																																										
Item No.: BOS-9-202	To discuss the proposed syllabus of Botany in Bachelor of Science (Medical)/Honours Semester I -II under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment under NEP 2020 for the session 2024-25.	The House approved the syllabus of Bachelor of Science (Medical)/Honours Sem I-II for the session 2024-25. The following key points were highlighted, discussed, and approved. 1. Discipline specific course (DSC) of Botany in Bachelor of Science (Medical)/ Honours Semester I and II, will have 6 credits per semester for session 2024-25. 2. Skill Enhance Course (SEC-I) will be offered in Semester II and will have 3 credits. 3. The course scheme with credits is as follows: <table><tr><th colspan="10">Semester -I</th></tr><tr><th rowspan="3">Course Name</th><th rowspan="3">Program Name</th><th rowspan="3">Course Code</th><th rowspan="3">Course Type</th><th rowspan="3">Total Marks</th><th rowspan="3">Paper</th><th colspan="3">Marks</th><th rowspan="3">C A</th><th rowspan="3">EXA M TIME In Hrs</th></tr><tr><th colspan="2">Credits</th><th rowspan="2">Ext.</th></tr><tr><th>L-T-P</th><th>L</th><th>P</th></tr><tr><td rowspan="2">Botany</td><td rowspan="2">Bachelor of Science (Medical)</td><td>BSML- 1075</td><td rowspan="2">C</td><td>100</td><td>Diversity of Cryptogams</td><td>4-0-0</td><td>70</td><td>-</td><td>30</td><td>3</td></tr><tr><td>BSMP- 1075</td><td>50</td><td>Diversity of Cryptogams Lab</td><td>0-0-2</td><td>-</td><td>35</td><td>15</td><td>3</td></tr></table> <table><tr><th colspan="10">Semester -II</th></tr><tr><th rowspan="3">Course Name</th><th rowspan="3">Program Name</th><th rowspan="3">Course Code</th><th rowspan="3">Course Type</th><th rowspan="3">Total Marks</th><th rowspan="3">Paper</th><th colspan="3">Marks</th><th rowspan="3">C A</th><th rowspan="3">EXA M TIME In</th></tr><tr><th colspan="2">Credits</th><th rowspan="2">Ext.</th></tr><tr><th>L-T-P</th><th>L</th><th>P</th></tr></table>	Semester -I										Course Name	Program Name	Course Code	Course Type	Total Marks	Paper	Marks			C A	EXA M TIME In Hrs	Credits		Ext.	L-T-P	L	P	Botany	Bachelor of Science (Medical)	BSML- 1075	C	100	Diversity of Cryptogams	4-0-0	70	-	30	3	BSMP- 1075	50	Diversity of Cryptogams Lab	0-0-2	-	35	15	3	Semester -II										Course Name	Program Name	Course Code	Course Type	Total Marks	Paper	Marks			C A	EXA M TIME In	Credits		Ext.	L-T-P	L	P	The approved syllabus is executed
Semester -I																																																																												
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Item No.: <u>BOS-9-2024-6</u>	To discuss the syllabus of Botany in Bachelor of Science (Biotechnology) Semester I under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment under NEP 2020 for the session 2024-25.	1. The proposed syllabus for Botany in Bachelor of Science (Biotechnology) Semester I under the Credit-Based Continuous Evaluation Grading System (CBCEGS) for the session 2024-25 was discussed and approved by Board members. As per Academic Council, the internal assessment for Bachelor of Science (Biotechnology) Semester-I was raised from 20% to 30% for session 2024-25. <table><tr><th rowspan="2">Course Code</th><th rowspan="2">Course Title</th><th rowspan="2">Course Type</th><th colspan="3">Credits</th><th rowspan="2">Total Credits</th><th rowspan="2">L</th><th rowspan="2">P</th><th rowspan="2">CA</th><th rowspan="2">Marks</th></tr><tr><th>L</th><th>T</th><th>P</th></tr><tr><td>BBTM-1074</td><td>Botany-I</td><td>DSC</td><td>4</td><td>0</td><td>1</td><td>4</td><td>50</td><td>20</td><td>30</td><td>100</td></tr></table>	Course Code	Course Title	Course Type	Credits			Total Credits	L	P	CA	Marks	L	T	P	BBTM-1074	Botany-I	DSC	4	0	1	4	50	20	30	100	The approved syllabus is executed.											
Course Code	Course Title	Course Type				Credits								Total Credits	L	P	CA	Marks																					
			L	T	P																																		
BBTM-1074	Botany-I	DSC	4	0	1	4	50	20	30	100																													
Item No.: <u>BOS-9-2024-8</u>	To discuss the syllabus of Botany in Bachelor of Science (Biotechnology) Semester III under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment for the session 2024-25.	1. The proposed syllabus for Bachelor of Science (Biotechnology) Semester III under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment for the session 2024-25 was discussed and approved by Board members without any change. The scheme is as follows: <table><tr><th rowspan="2">Course Code</th><th rowspan="2">Course Title</th><th rowspan="2">Course Type</th><th colspan="3">Credits</th><th rowspan="2">Total Credits</th><th rowspan="2">L</th><th rowspan="2">P</th><th rowspan="2">CA</th><th rowspan="2">Marks</th></tr><tr><th>L</th><th>T</th><th>P</th></tr><tr><td>BBTL-3074</td><td>Botany-II</td><td>C</td><td>2</td><td>0</td><td>0</td><td>2</td><td>40</td><td>-</td><td>10</td><td>50</td></tr><tr><td>BBTP-3070</td><td>Lab in Botany-II</td><td>C</td><td>0</td><td>0</td><td>1</td><td>1</td><td>-</td><td>20</td><td>5</td><td>25</td></tr></table>	Course Code	Course Title	Course Type	Credits			Total Credits	L	P	CA	Marks	L	T	P	BBTL-3074	Botany-II	C	2	0	0	2	40	-	10	50	BBTP-3070	Lab in Botany-II	C	0	0	1	1	-	20	5	25	The approved syllabus is executed.
Course Code	Course Title	Course Type				Credits								Total Credits	L	P	CA	Marks																					
			L	T	P																																		
BBTL-3074	Botany-II	C	2	0	0	2	40	-	10	50																													
BBTP-3070	Lab in Botany-II	C	0	0	1	1	-	20	5	25																													
Item No.: <u>BOS-9-2024-8</u>	To discuss the proposed syllabus of Botany in Bachelor of Science (Home Science) Semester V under continuous evaluation system with 20% internal assessment for the session 2024-25.	1. The proposed syllabus for Bachelor of Science (Home Science) Semester V under continuous evaluation system with 20% internal assessment for the session 2023-24 was discussed and approved by Board members without any change.	Suggestions implemented.																																				

Item No.: BOS-9-202	To discuss the proposed syllabus of Master of Science (Botany) Semester I-IV under Credit Based Continuous Evaluation Grading system with 20% internal assessment for the session 2024-25.	1. The syllabus of Botany in Master of Science (Botany) Semester I-II under Credit Based Continuous Evaluation Grading System (CBCEGS) was discussed with Board members and was approved. As per Academic Council, the internal assessment for Master of Science (Botany) Semester I - II was raised from 20% to 30%. Following points were highlighted and approved. - Overall M. Sc. Botany semester I & II for session 2024-25 will have 52credits with 48 mandatory and 4 credits for Inter Disciplinary courses (optional). - Overall M. Sc. Botany semester III-IV for session 2024-25 will have 52 credits with 48 mandatory and 4 credits for interdisciplinary courses (optional). - The course scheme approved for M.Sc. Botany Sem. I-IV under Credit Based Continuous Evaluation Grading System for the session 2024-25 is as follows: Master of Science (Botany) Semester-I <table><tr><th rowspan="2">Course Code</th><th rowspan="2">Course Title</th><th rowspan="2">Course Type</th><th rowspan="2">Hours /Week</th><th rowspan="2">Credits L-T-P</th><th rowspan="2">Total Credits</th><th colspan="4">Marks</th><th rowspan="2">Examination time (in Hours)</th></tr><tr><th>Total</th><th>Th</th><th>P</th><th>C A</th></tr><tr><td>MBTL-1071</td><td>Fungi and Plant Pathology</td><td>C</td><td>3</td><td>3-0-0</td><td>3</td><td>100</td><td>70</td><td>-</td><td>30</td><td>3</td></tr><tr><td>MBTL-1072</td><td>Phycology</td><td>C</td><td>3</td><td>3-0-0</td><td>3</td><td>100</td><td>70</td><td>-</td><td>30</td><td>3</td></tr><tr><td>MBTL-1073</td><td>Bryology</td><td>C</td><td>3</td><td>3-0-0</td><td>3</td><td>100</td><td>70</td><td>-</td><td>30</td><td>3</td></tr><tr><td>MBTL-1074</td><td>Plant Physiology</td><td>C</td><td>3</td><td>3-0-0</td><td>3</td><td>100</td><td>70</td><td>-</td><td>30</td><td>3</td></tr><tr><td>MBTL-1075</td><td>Genetics and Evolution</td><td>C</td><td>3</td><td>3-0-0</td><td>3</td><td>100</td><td>70</td><td>-</td><td>30</td><td>3</td></tr><tr><td>MBTL</td><td>Compu</td><td>IC</td><td>3</td><td>3-0-0</td><td>3</td><td>100</td><td>70</td><td>-</td><td>30</td><td>3</td></tr></table>	Course Code	Course Title	Course Type	Hours /Week	Credits L-T-P	Total Credits	Marks				Examination time (in Hours)	Total	Th	P	C A	MBTL-1071	Fungi and Plant Pathology	C	3	3-0-0	3	100	70	-	30	3	MBTL-1072	Phycology	C	3	3-0-0	3	100	70	-	30	3	MBTL-1073	Bryology	C	3	3-0-0	3	100	70	-	30	3	MBTL-1074	Plant Physiology	C	3	3-0-0	3	100	70	-	30	3	MBTL-1075	Genetics and Evolution	C	3	3-0-0	3	100	70	-	30	3	MBTL	Compu	IC	3	3-0-0	3	100	70	-	30	3	Suggestions implemented.
Course Code	Course Title	Course Type							Hours /Week	Credits L-T-P	Total Credits	Marks				Examination time (in Hours)																																																																				
			Total	Th	P	C A																																																																														
MBTL-1071	Fungi and Plant Pathology	C	3	3-0-0	3	100	70	-	30	3																																																																										
MBTL-1072	Phycology	C	3	3-0-0	3	100	70	-	30	3																																																																										
MBTL-1073	Bryology	C	3	3-0-0	3	100	70	-	30	3																																																																										
MBTL-1074	Plant Physiology	C	3	3-0-0	3	100	70	-	30	3																																																																										
MBTL-1075	Genetics and Evolution	C	3	3-0-0	3	100	70	-	30	3																																																																										
MBTL	Compu	IC	3	3-0-0	3	100	70	-	30	3																																																																										

-1046	ter Applications and Bioinformatics									
MBTP-1077	Botany Practicals I	C	6	0-0-3	3	100	-	70	30	6
MBTP-1078	Botany Practicals II	C	6	0-0-3	3	100	-	70	30	6
Student can opt any one of the following Interdisciplinary optional courses		IDE			4	100	70		30	3
Total					24	800				
IDEC-1101 IDEM-1362 IDEH-1313 IDEI-1124 IDEW-12100				Effective Communication Skills Basics of Music (Vocal) Human Rights and Constitutional Duties Basics of Computer Applications Indian Heritage: Contribution to the world (Credits of these courses will not be added to SGPA)						

Master of Science (Botany) Semester-II

Course Code	Course Title	Course Type	Hours /week	Credits L-T-P	Total Credits	Marks				Examination time (in Hours)
						Total	L	P	C/A	
MBTL-2071	Pteridology	C	3	3-0-0	3	100	70	-	30	3
MBTL-2072	Diversity and Biology of Gymnosperms	C	3	3-0-0	3	100	70	-	30	3
MBTL-2073	General Microbiology	C	3	3-0-0	3	100	70	-	30	3
MBTL-2074	Cell Biology	C	3	3-0-0	3	100	70	-	30	3
MBTL-2075	Ecological Modelling and Forest Ecology	C	3	3-0-0	3	100	70	-	30	3
MBTL-2336	Theoretical Biology	IC	3	3-0-0	3	100	70	-	30	3
MBTP-2077	Botany Practicals I	C	6	0-0-3	3	100	-	70	30	6
MBTP-2078	Botany Practicals II	C	6	0-0-3	3	100	-	70	30	6
MBTI-2079	Summer Training	C		0-0-0	0	Satisfactory/Not satisfactory				

Master of Science (Botany) Semester-III

Course Code	Course Title	Course Type	Hours/week	Credits L-T-P	Total Credits	Marks				Examination time (in Hours)
						Total	L	P	C A	
MBTL-3071	Developmental Botany	C	3	3-0-0	3	75	60	-	15	3
MBTL-3072	Plant Molecular Biology	C	3	3-0-0	3	75	60	-	15	3
MBTL-3073	Plant Breeding and IPR	C	3	3-0-0	3	75	60	-	15	3
MBTL-3074	Plant Biochemistry	C	3	3-0-0	3	75	60	-	15	3
MBTL-3075	Applied Botany	C	3	3-0-0	3	75	60	-	15	3
MBTL-3076	Plant Morphogenesis	C	3	3-0-0	3	75	60	-	15	3
MBTP-3077	Botany Practicals I	C	6	0-0-3	3	75	-	60	15	6
MBTP-3078	Botany Practicals II	C	6	0-0-3	3	75	-	60	15	6
Student can opt any one of the following Interdisciplinary compulsory courses		IDE			4	100	80	-	20	3
Total					24	600				
IDEC-1101 IDEM-1362 IDEH-1313 IDEI-1124 IDEW-1275			Effective Communication Skills Basics of Music (Vocal) Human Rights and Constitutional Duties Basics of Computer Applications Indian Heritage: Contribution to the world (Credits of these courses will not be added to SGPA)							

Master of Science (Botany) Semester –IV

Course Code	Course Title	Course Type	Hours/week	Credits L-T-P	Total Credits	Marks				Examination time (in Hours)
						Total	L	P	C A	
MBTL-4071	Plant Anatomy	C	3	3-0-0	3	75	60	-	15	3
MBTL-4072	Structure and Metabolism of Plant Hormones	C	3	3-0-0	3	75	60	-	15	3

		<table><tr><td>MBTL-4073</td><td>Plant Tissue Culture and Biotechnology</td><td>C</td><td>3</td><td>3-0-0</td><td>3</td><td>75</td><td>60</td><td>-</td><td>15</td><td>3</td></tr><tr><td>MBTL-4074</td><td>Analytical Techniques</td><td>C</td><td>3</td><td>3-0-0</td><td>3</td><td>75</td><td>60</td><td>-</td><td>15</td><td>3</td></tr><tr><td>MBTL-4075</td><td>Diversity and Biology of Angiosperms</td><td>C</td><td>3</td><td>3-0-0</td><td>3</td><td>75</td><td>60</td><td>-</td><td>15</td><td>3</td></tr><tr><td>MBTL-4076 (Opt-I/II)</td><td>Optional Paper**</td><td>IE</td><td>3</td><td>3-0-0</td><td>3</td><td>75</td><td>40</td><td></td><td>15</td><td>3</td></tr><tr><td>MBTP-4077</td><td>Botany Practicals I</td><td>C</td><td>6</td><td>0-0-3</td><td>3</td><td>75</td><td>-</td><td>60</td><td>15</td><td>3</td></tr><tr><td>MBTP-4078</td><td>Botany Practicals II</td><td>C</td><td>4</td><td>0-0-2</td><td>2</td><td>50</td><td>-</td><td>40</td><td>10</td><td>3</td></tr><tr><td>MBTD-4079</td><td>Field Study and Research Techniques</td><td>C</td><td></td><td>0-2-0</td><td>2</td><td>50</td><td>-</td><td>40</td><td>10</td><td>-</td></tr><tr><td colspan="6">Total</td><td>25</td><td>625</td><td colspan="3"></td></tr></table> **Student can opt only one paper from the two optional papers. List of Optional Papers 1. MBTL-4076(I) Hazardous Chemicals 2. MBTL-4076 (II) Immunology	MBTL-4073	Plant Tissue Culture and Biotechnology	C	3	3-0-0	3	75	60	-	15	3	MBTL-4074	Analytical Techniques	C	3	3-0-0	3	75	60	-	15	3	MBTL-4075	Diversity and Biology of Angiosperms	C	3	3-0-0	3	75	60	-	15	3	MBTL-4076 (Opt-I/II)	Optional Paper**	IE	3	3-0-0	3	75	40		15	3	MBTP-4077	Botany Practicals I	C	6	0-0-3	3	75	-	60	15	3	MBTP-4078	Botany Practicals II	C	4	0-0-2	2	50	-	40	10	3	MBTD-4079	Field Study and Research Techniques	C		0-2-0	2	50	-	40	10	-	Total						25	625				
MBTL-4073	Plant Tissue Culture and Biotechnology	C	3	3-0-0	3	75	60	-	15	3																																																																																	
MBTL-4074	Analytical Techniques	C	3	3-0-0	3	75	60	-	15	3																																																																																	
MBTL-4075	Diversity and Biology of Angiosperms	C	3	3-0-0	3	75	60	-	15	3																																																																																	
MBTL-4076 (Opt-I/II)	Optional Paper**	IE	3	3-0-0	3	75	40		15	3																																																																																	
MBTP-4077	Botany Practicals I	C	6	0-0-3	3	75	-	60	15	3																																																																																	
MBTP-4078	Botany Practicals II	C	4	0-0-2	2	50	-	40	10	3																																																																																	
MBTD-4079	Field Study and Research Techniques	C		0-2-0	2	50	-	40	10	-																																																																																	
Total						25	625																																																																																				
Item No.: <u>BOS-9-2024-10</u>	The certificate course “ Gardener cum Nursery Raisers ” has been discontinued from the session 2024-25.	1. The board members agreed to discontinue the " Gardener cum Nursery Raisers " certificate course for the session 2024-25. However, they recommended restarting the course with some modifications in the following session.	Suggestions implemented.																																																																																								
Item No.: <u>BOS-9-2024-11</u>	To discuss and approve the list of proposed examiners for above stated courses for session 2024-25.	The chairperson discussed the Examiners and Evaluators for Botany papers in Bachelor of Science (Medical/Honours) Semester I-VI, Bachelor of Science (Biotechnology) Semester I & III, Bachelor of Science (Home Science) Semester V and Master of Science (Botany) Semester I-IV with the members and they approved it	Suggestions implemented.																																																																																								
Item No.: <u>BOS-9-2024-12</u>	To discuss research inputs and plans of department for session 2024-25.	The Chairperson informed the committee members about the research initiatives undertaken by the department. She highlighted that the department comprises two Ph.D. holders, two M.Sc. (NET) qualified faculty, and two additional M.Sc. degree holders. She also mentioned that the department is well-equipped with advanced instruments such as a refrigerated	Suggestions implemented.																																																																																								

		centrifuge, spectrophotometer, seed germination chamber, deep freezer, autoclave, and more, funded through project grants from DBT Star College, CPE, and FIST (DST). Faculty members actively enhance their academic expertise by participating in webinars, Faculty Development Programs (FDPs), and induction and refresher courses offered by various institutions. Both faculty and students regularly present research papers at national and international conferences.	
Item No.: BOS-9-202 13	To discuss teaching methodologies adopted in department and inputs required to upgrade the same.	The committee members were informed by the chairperson about the department's adoption of innovative teaching methods, including ICT-based educational videos, projects, and seminars. These methods have led to the development of critical and creative thinking skills among the students. The department continued to provide education through a combination of in-person and online approaches, ensuring that teaching effectiveness remained high and all teachers were able to complete their syllabi on time. In addition to this, the department also highlights various student-focused initiatives, such as peer mentoring, group discussions, teacher-guided student mentoring, and extra classes for students who need additional support. The department is well-equipped with smart classrooms, digital content, and demonstrations to enhance the comprehension of complex concepts. Regular extension lectures are conducted by distinguished speakers from around the world. The department also organizes activities like lab visits, PowerPoint presentation competitions, quizzes, workshops, and educational trips to foster the overall development of students and ignite their passion for science.	Suggestions implemented. 1. Anubhuti (A student-student Mentoring Program) on 8th Aug. 2024 2. Poster making competition (Van-mahotsava) on 7th -8th Aug. 2024 3. Plantation Drive on 14th Aug. 2024 4. Plant propagation on 21st Aug 2024 5. Industrial Visit to Pukhraj Organics on 31st Aug. 2024 6. Workshop on sustainable solution: Innovative

			approaches to natural products in manufacturing and processing at Pukhraj on 31st Aug. 2024 7. World Environment Health Day (Poster making Competition) on 3rd Oct. 2024 8. Seminar on Environmental Pollution and Global Warming due to Agrochemicals by Dr. Anil Sharma (Scientist and Head at ICAR, Jalandhar) on 18th Oct. 2024 9. Workshop on “Bamboo: Nature's Marvel and Sustainable Solution” by Dr. C. Nirmala (Professor, Department of Botany, Panjab University, Chandigarh on 18th Oct. 2024 10. Extension Lecture on
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			“Orchids – Unlocking Entrepreneurial Opportunities in the World of Flowering Plants” by Dr. Promila Pathak (Professor, Department of Botany, Panjab University, Chandigarh) on 18th Oct. 2024 11. Green stall on Diwali Extravaganza on 22nd Oct. 2024 12. Industrial Visit To The Bhogpur Co-Operative Sugar Mills Ltd, Bhogpur on 6th Feb. 2025 13. Celebrate International Day of Women and Girls in STEM by organizing Writing Competition on topic Unpacking STEM careers: Her Voice in
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			Science on 11th Feb. 2025 14. Green Stall (Ecopreneurs in Action: Sustainable Green Business) in Umang KMV innocreative Carnival 2025 on 15th Feb. 2025 15. National Science Day Celebration on 28th Febr. 2025 16. Excursion Visit to Shimla on 7th - 9th March 2025 17. A visit to Botany Labs at GNDU, Amritsar on 19th March 2025
<u>Item No.:</u> <u>BOS-9-2024</u>	To discuss the outcome of above stated courses and programs.	The course outcomes of above stated courses and programs were discussed and approved by members of Board of studies.	Suggestions incorporated.
<u>Item No.:</u> <u>BOS-9-2025</u>	To discuss attainment report of December 2023.	The attainment report of December 2023 of B.Sc. Medical (Sem. I, III & V), B.Sc. Biotechnology (Sem. I & III), B.Sc. Home Science (Sem. V) and M.Sc. Botany (Sem. I & III) was discussed and appreciated by members of Board of Studies.	Suggestions implemented.

The house approved the item BOT: 2025:10:1. (Annexure A)

Item: BOT: 2025:10:2 To discuss the proposed syllabus of Botany in **Bachelor of Science (Medical)/Honours Semester I -IV** under Credit Based Continuous Evaluation

Grading System (CBCEGS) with 30% internal assessment under NEP 2020 for the session 2025-26.

Proceedings: The proposed syllabus of Botany in **Bachelor of Science (Medical)** **/Honours Semester I -IV** under Credit Based Continuous Evaluation Grading System (CBCEGS) with 30% internal assessment under NEP 2020 for the session 2025-26 was discussed with Board members and was approved. The scheme is as follows:

Bachelor of Science (Medical)/Honours		
	SEMESTER-I	
Course Type	List of Courses	Credits
Discipline Specific Courses	- Zoology (Diversity of Nonchordates-I) (Protozoa-Annelids) - Chemistry (Inorganic Chemistry-I) - Chemistry (Inorganic Chemistry-I: Lab) - Botany (Diversity of Cryptogams) - Botany (Diversity of Cryptogams : Lab)	4-0-2 4-0-2 4-0-2
Compulsory Course	- Punjabi(Compulsory-I) ¹BasicPunjabi-I ²Punjab History and Culture (From Earliest Time to C 320)	4-0-0
Ability Enhancement Course	English Language Skills-1	4-0-0
Value Added Course	Foundation Course	2-0-0
		Total Credits: 28
	SEMESTER-II	
Discipline Specific Courses	- Zoology (Diversity of Nonchordates-II) (Arthropoda-Hemichordata) - Chemistry (Organic Chemistry-I) - Chemistry (Organic Chemistry-I: Lab) - Botany (Cell Biology and Genetics) - Botany (Cell Biology and Genetics: Lab)	4-0-2 4-0-2 4-0-2
Compulsory course	- Punjabi(Compulsory-2) ¹BasicPunjabi-2 ²Punjab History and Culture (C 320 to 1000 A.D.)	4-0-0
Multi-Disciplinary Course	Appreciating English Literature-1	4-0-0
Skill Enhancement Course	Chemistry (Spectroscopic Methods)/Aquaculture/Medicinal Botany	2-0-1
Value Added Course	Drug Abuse: problem, management and prevention (Compulsory-1)	2-0-0
		Total Credits- 31
	SEMESTER-III	
Discipline Specific Courses	- Zoology (Diversity of Chordates) - Chemistry (Physical Chemistry-I) - Chemistry (Physical Chemistry-I: Lab) - Botany (Diversity of Phanerogams) - Botany (Diversity of Phanerogams: Lab)	4-0-2 4-0-2

		4-0-2
Compulsory Course	- Punjabi(Compulsory-3) ¹BasicPunjabi-3 ²Punjab History and Culture (From 1000 to 1605 A.D.)	4-0-0
Ability Enhancement Course	English Language Skills-2	4-0-0
Value Added Course	Gender Sensitization	2-0-0
		Total Credits: 28
	SEMESTER-IV	
Discipline Specific Courses	- Zoology (Cell Biology) - Chemistry (Inorganic Chemistry-II) - Chemistry (Inorganic Chemistry-II: Lab) - Botany (Structure, Development and Reproduction in Flowering Plants) - Botany (Structure, Development and Reproduction in Flowering Plants: Lab)	4-0-2 4-0-2 4-0-2
Compulsory course	- Punjabi(Compulsory-4) ¹BasicPunjabi-4 ²Punjab History and Culture (From 1605 to 1849 A.D.)	4-0-0
Multi-Disciplinary Course	Appreciating English Literature-2	4-0-0
Skill Enhancement Course	Chemistry (Spectroscopic Methods)/Medicinal Botany	3-0-0
Value Added Course	Environmental Studies (Compulsory)	2-0-0
		Total Credits: 31
	SEMESTER-V	
Discipline Specific Courses	- Zoology (Biomolecules) - Chemistry (Organic Chemistry-II) - Chemistry (Organic Chemistry-II) - Botany (Plant Physiology and Biochemistry) - Botany (Plant Physiology and Biochemistry: Lab)	4-0-2 4-0-2 4-0-2
Compulsory Course	- Punjabi(Compulsory-5) ¹BasicPunjabi-5 ²Punjab History and Culture (From 1849 to 1947 A.D.)	4-0-0
Ability Enhancement Course	English Language Skills-3	4-0-0
Value Added Course	Personality Development	2-0-0
Internship	Summer Internship (02 Weeks)	0-0-2
		Total Credits: 30
	SEMESTER-VI	
Discipline Specific Courses	- Zoology (Animal Physiology) - Chemistry (Physical Chemistry-II) - Chemistry (Physical Chemistry-II) - Botany (Ecology)	4-0-2 4-0-2

	Botany (Ecology: Lab)	4-0-2
Compulsory course	- Punjabi(Compulsory-6) ¹BasicPunjabi-6 ²PunjabHistoryand Culture (From 1947 to 2000 A.D.)	4-0-0
Multi-Disciplinary Course	Appreciating English Literature-3	4-0-0
Skill Enhancement Course	Chemistry (Spectroscopic Methods)/Medical Lab Technology/Medicinal Botany	2-0-1
Value Added Course	Social Outreach/ Human Rights	2-0-0
		Total Credits: 31
	SEMESTER-VII	
Discipline Specific Courses B.Sc. (Honours) Chemistry	- Physical Chemistry-III: Chemical kinetics - Chemistry (Organic Chemistry-IV) - Chemistry (Inorganic Chemistry-III) - Chemistry (Physical Chemistry-IV) - Chemistry (Organic Chemistry-III: Lab) - Chemistry (Physical Chemistry-III: Lab)	3-0-0 3-0-0 3-0-0 3-0-0 0-0-2 0-0-2
Discipline Specific Courses B.Sc. (Honours) Botany	- Phycology - Phycology Lab - Fungi and Plant Pathology - Fungi and Plant Pathology Lab - Bryology - Bryology Lab - Pteridology - Pteridology Lab	4-0-0 0-0-1 4-0-0 0-0-1 4-0-0 0-0-1 4-0-0 0-0-1
Discipline Specific Courses B.Sc. (Honours) Zoology	- Functional Organisation of Animals- I - Functional Organisation of Animals- I Lab - Biochemistry - Biochemistry Lab - Developmental Biology - Developmental Biology Lab - Genetics - Genetics Lab	3-0-0 0-0-1 3-0-0 0-0-1 3-0-0 0-0-1 3-0-0 0-0-1
Minor B.Sc. (Honours) Chemistry B.Sc. (Honours) Botany B.Sc. (Honours) Zoology	Synthesis and characterization of materials Genetics and Evolution Genetics and Evolution Lab Ecology Ecology Lab	4-0-0 3-0-0 0-0-1 3-0-0 0-0-1
Internship	Summer Internship/ Community Outreach/ Field Study	0-0-2
		Total Credits: 22
	SEMESTER-VIII	
Discipline Specific Courses Chemistry	- Chemistry (Inorganic Chemistry-IV) - Chemistry (Organic Chemistry-V) - Chemistry (Inorganic Chemistry-V) - Chemistry (Physical Chemistry-V) - Chemistry (Inorganic Chemistry-III)	4-0-0 4-0-0 3-0-0 3-0-0 0-0-2

Discipline Specific Courses Botany	• Diversity and Biology of Gymnosperms • Diversity and Biology of Gymnosperms Lab • Diversity and Biology of Angiosperms • Diversity and Biology of Angiosperms Lab • Plant Breeding • Plant Breeding Lab • Plant Metabolism • Plant Metabolism Lab	4-0-0 0-0-1 4-0-0 0-0-1 4-0-0 0-0-1 4-0-0 0-0-1
Discipline Specific Courses B.Sc. (Honours) Zoology	• Functional Organisation of Animals- II • Functional Organisation of Animals- II Lab • Economic Entomology • Economic Entomology Lab • Applied Zoology (Non Chordates) • Applied Zoology (Non Chordates) Lab • Evolution • Evolution Lab	3-0-0 0-0-1 3-0-0 0-0-1 3-0-0 0-0-1 3-0-0 0-0-1
Minor B.Sc. (Honours) Chemistry B.Sc. (Honours) Botany B.Sc. (Honours) Zoology	Chemistry (Atomic and molecular spectroscopy) Applied Botany Applied Botany Lab Medical Zoology Medical Zoology Lab	4-0-0 3-0-0 0-0-1 3-0-0 0-0-1
		Total Credits: 20

Kanya Maha Vidyalaya, Jalandhar (*Autonomous*)

SCHEME AND CURRICULLUM OF EXAMINATIONS OF FOUR-YEAR DEGREE PROGRAM Bachelor of Science (Medical)/Honours Session 2025-2026

B.Sc (Medical) Semester I								
Course Code	Course Name	Course Type	Credits	Total Marks	Ext.		CA	Examination Time (in Hours)
					L	P		
BSML-1421 BSML-1031 BSML-1431	Punjabi (Compulsory) ¹ Basic Punjabi ² Punjab History and Culture	C	4	100	70	-	30	3
BSML-1212	English Language Skills-1	AEC	4	100	70		30	3
BSML-1483	Zoology (Diversity of Nonchordates- I) (Protozoa - Annelida)	DSC	4	100	70		30	3
BSMP-1483	Nonchordates- I Lab		2	50	--	35	15	3
BSML-1084	Chemistry (Inorganic Chemistry-I: Atomic Structure and Periodic Table)	DSC	4	100	70		30	3
BSMP-1084	Inorganic Chemistry-I: Lab Qualitative Analysis		2	50	--	35	15	3
BSML-1075	Botany (Diversity of		4	100	70		30	3

	Cryptogams)	DSC						
BSMP-1075	Diversity of Cryptogams Lab		2	50	--	35	15	3
*VACF-1491	Foundation Course	VAC	2	50	35		15	1

¹Special paper in lieu of Punjabi (Compulsory) for those who have not studied Punjabi upto 8th-10th Class.

²Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.

*Credits grade points of these courses will not be added in SGPA/CGPA of the semester Program and only grades will be provided.

C-Compulsory

AEC- Ability Enhancement Compulsory Course, DSC- Discipline Specific Course,

VAC- Value Added Course

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULLUM OF EXAMINATIONS OF FOUR-YEAR DEGREE PROGRAM

Bachelor of Science (Medical/Honours)

Session 2025-2026

B.Sc. (Medical) Semester II

Course Code	Course Name	Course Type	Credits	Total Marks	Ext.		CA	Examination Time (in Hours)
					L	P		
BSML-2421 BSML-2031 BSML-2431	Punjabi (Compulsory) ¹ Basic Punjabi ² Punjab History and Culture	C	4	100	70	-	30	3
BSML-2212	English Language And Literature-1	MDC	4	100	70		30	3
BSML- 2483	Zoology (Diversity of Nonchordates- II) (Arthropoda - Hemichordata)	DSC	4	100	70		30	3
BSMP-2483	Nonchordates- II Lab		2	50	--	35	15	3
BSML-2084	Chemistry (Organic Chemistry-I: Hydrocarbons and alkyl Halides)	DSC	4	100	70		30	3
BSMP-2084	Organic Chemistry-I: Lab Functional group analysis		2	50	--	35	15	3
BSML-2075	Botany (Cell Biology and Genetics)	DSC	4	100	70		30	3
BSMP-2075	Cell Biology and Genetics Lab		2	50	--	35	15	3

BSMM-2080/ BSMM -2480/ BSMM -2070	Chemistry/ Aquaculture/ Medicinal Botany	SEC	3	100	50	20	30	3+3
VACD- 2161	*Drug Abuse: Problem, Management and Prevention (Compulsory)	VAC	2	50	35	--	15	3

¹Special paper in lieu of Punjabi (Compulsory) for those who have not studied Punjabi upto 8th-10th Class.

²Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.

*Credits grade points of these courses will not be added in SGPA/CGPA of the semester Program and only grades will be provided.

** Student can opt any one of the given courses.

C-Compulsory

MDC- Multidisciplinary Course

DSC- Discipline Specific Course

SEC- Skill Enhancement Course

VAC- Value Added Course

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF FOUR YEAR DEGREE PROGRAMME
Bachelor of Science (Medical)
Session-2025-26

Bachelor of Science (Medical)/ Honours Semester-III								
Course Code	Course Name	Course Type	Credits	Total Marks	ESE		CA	Examination time (in Hours)
					L	P		
BSML-3421 BSML-3031 BSML-3431	Punjabi (Compulsory) 1Basic Punjabi 2Punjab History and Culture (From Earliest Times To C 320)	C	4-0-0	100	70	-	30	3
BSML-3212	English Language Skills- II	AEC	4-0-0	100	70		30	3
BSML-3483	Zoology (Diversity of Chordates)	DSC	4-0-0	100	70		30	3
BSMP-3483	Diversity of Chordates Laboratory		0-0-1	50		35	15	3
BSML-3084	Chemistry –I (Physical states of Matter and Electrochemistry)	DSC	4-0-0	100	70		30	3
BSMP-3084	Physical Chemistry-I Lab		0-0-2	50		35	15	3
BSML-3075	Botany (Diversity of Phanerogams)	DSC	4-0-0	100	70		30	3
BSMP-3075	Diversity of Phanerogams-Lab		0-0-2	50		35	15	3
*VACG-3531	Gender Sensitization	VAC	2-0-0	50	35		15	1

¹ Special paper in lieu of Punjabi (Compulsory) for those who have not studied Punjabi .

² Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.

*credits/ grade points of these courses will not be added in SGPA/ CGPA of the semester/ Programme and only grades will be provided.

C- Compulsory

AEC-Ability Enhancement Course

DSC-Discipline Specific Course

VAC-Value Added Course

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF FOUR YEAR DEGREE PROGRAMME
Bachelor of Science (Medical)/ Honours
Session-2025-26

Bachelor of Science (Medical)/ Honours Semester-IV								
Course Code	Course Name	Course Type	Credits	Total Marks	ESE		CA	Examination time (in Hours)
					L	P		
BSML-4421 BSML -4031 BSML -4431	Punjabi (Compulsory) ¹ Basic Punjabi ² Punjab History and Culture	C	4-0-0	100	70	-	30	3
BSML -4212	Appreciating English Literature –II	MDC	4-0-0	100	70		30	3
BSML -4483	Zoology (Cell Biology)	DSC	4-0-0	100	70		30	3
BSMP -4483	Cell Biology-Lab		0-0-1	50		35	15	3
BSML -4084	Inorganic Chemistry-II (Periodic Table and Coordination)	DSC	4-0-0	100	70		30	3
BSMP -4084	Inorganic Chemistry-II Lab		0-0-2	50		35	15	3
BSML -4075	Botany (Structure, Development and Reproduction in Flowering Plants)	DSC	4-0-0	100	70		30	3
BSMP -4075	Structure, Development And Reproduction In Flowering Plants –Lab		0-0-2	50		35	15	3
**BSMM-2080/ BSMM -2480/ BSMM -2070	Chemistry/ Aquaculture/ Medicinal Botany	SEC	3-0-0	100	70		30	3
*VACE-4221	Environment studies (Compulsory)	VAC	2-0-0	50	20	15	15	3

¹ Special paper in lieu of Punjabi (Compulsory) for those who have not studied Punjabi .

² Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.

*credits/ grade points of these courses will not be added in SGPA/ CGPA of the semester/ Programme and only grades will be provided.

** Student Can opt any one of the given course

C- Compulsory

MDC- Multi Disciplinary Course

DSC-Discipline Specific Course

SEC- Skill Enhancement Course

VAC-Value Added Course

The house approved the item BOT: 2025:10:2. (Annexure B)

Item: BOT: 2025:10:3 To discuss the syllabus of Botany in **Bachelor of Science (Biotechnology) Semester I and IV** under Credit Based Continuous Evaluation Grading System (CBCEGS) with 30% internal assessment under NEP 2020 for the session 2025-26.

Proceedings: The syllabus of Botany in **Bachelor of Science (Biotechnology) Semester I and IV** under Credit Based Continuous Evaluation Grading System (CBCEGS) with 30% internal assessment under NEP 2020 for the session 2025-26 was discussed with Board members and was approved. The scheme is as follows:

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAMME
Bachelor of Science (Hons.) Biotechnology Semester-I
(Session 2025-2026)
Botany-I

Course Code	Course Title	Course Type	Credits			Total Credits	L	P	CA	Marks
			L	T	P					
BBTM-1074	Botany-I	C	4	0	1	4	50	20	30	100

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAMME
Bachelor of Science (Hons.) Biotechnology Semester-IV
(Session 2025-2026)
Botany-II

Course Code	Course Title	Course Type	Credits			Total Credits	L	P	CA	Marks
			L	T	P					
BBTM-4074	Botany-II	C	3	0	1	4	50	20	30	100

The house approved the item BOT: 2025:10:3. (Annexure C)

Item: BOT: 2025:10:4 To discuss the proposed syllabus of Botany in **Bachelor of Science (Medical) Semester V - VI** under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment for the session 2025-26.

Proceedings: The proposed syllabus of Botany in **Bachelor of Science (Medical)** **Semester V - VI** under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment for the session 2025-26 was discussed with Board members and was approved. The scheme is as follows:

Kanya Mahavidyalaya, Jalandhar

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE-YEAR DEGREE PROGRAMME

Bachelor of Science (Medical) 2025-26

Bachelor of Science (Medical) Semester –V										
Course Name	Program Name	Course Code	Course Type	Total Marks	Marks				CA	Exam Time In Hrs
					Paper	Credits L-T-P	Ext. L	P		
Botany	Bachelor of Science (Medical)	BSMM- 5075(I)	C	50	Plant Physiology	2-0-0	40		10	3
		BSMM- 5075 (II)		75	Biochemistry &Biotechnology	3-0-0	60		15	3
		BSMM- 5075 (P)		50	Practical (Based on Papers–I and II)	0-0-2		40	10	3

Bachelor of Science (Medical) Semester –VI										
Course Name	Program Name	Course Code	Course Type	Total Marks	Marks				CA	Exam Time In Hrs
					Paper	Credits L-T-P	Ext. L	P		
Botany	Bachelor of Science (Medical)	BSMM-6075 (I)	C	50	Ecology	2-0-0	40		10	3
		BSMM- 6075(II)		75	Economic Botany	3-0-0	60		15	3
		BSMM- 6075 (P)		50	Practical (Based on Papers–I and II)	0-0-2		40	10	3

The house approved the item BOT: 2025:10:4. (Annexure D)

Item: BOT: 2025:10:5 To discuss the proposed syllabus of Botany in **Bachelor of Science (Home Science)** Semester V under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment for the session 2025-26.

Proceedings: The proposed syllabus of Botany in **Bachelor of Science (Home Science)** Semester V under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment for the session 2025-26 was discussed with Board members and was approved. The scheme is as follows:

KANYA MAHA VIDYALAYA, JALANDHAR (AUTONOMOUS)

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE-YEAR DEGREE PROGRAMME

Bachelor of Science (Home Science) Semester-V (Session: 2025-2026)

Semester V										
Course Code	Course Name	Course Type	Hours Per Week L-T-P	Credits L-T-P	Total	Marks				Examination time (in Hours)
						Total	Ext.		CA	
							L	P		
BHSM- 5077	Applied Botany And Home Gardening	C	3-0-2	3-0-1	4	100	60	20	20	3+3

The house approved the item BOT: 2025:10:5. (Annexure E)

Item: BOT: 2025:10:6 To discuss the proposed syllabus of Botany in **Master of Science (Botany) Semester I - IV** under Credit Based Continuous Evaluation Grading system with 30% internal assessment for the session 2025-26.

Proceedings: The syllabus of Botany in **Master of Science (Botany) Semester I - IV** under Credit Based Continuous Evaluation Grading system with 30% internal assessment for the session 2025-26 (CBCEGS) was discussed with Board members and was approved. Following points were highlighted and approved.

- It was decided to give 2 credits to summer training in **Master of Science (Botany) Semester II.** These credits will not be added in SGPA/CGPA of the semester Program and only grades will be provided.
- It was also recommended to introduce a one-credit seminar along with an assignment in the third semester of the Master of Science (Botany) program.
- It was also suggested to split the course title Field Study and Research Techniques into two papers titled **Field study and Research Techniques/ Research Project** to give due credit to these courses.

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO-YEAR DEGREE PROGRAMME

Master of Science (Botany) Semester-I

Session: 2025-26

Course Code	Course Title	Course Type	Hours /Week	Credits L-T-P	Total Credits	Marks				Examination time (in Hours)
						Total	Th	P	CA	
MBTL-1071	Fungi and Plant Pathology	C	3	3-0-0	3	100	70	-	30	3
MBTL-1072	Phycology	C	3	3-0-0	3	100	70	-	30	3
MBTL-1073	Bryology	C	3	3-0-0	3	100	70	-	30	3
MBTL-1074	Plant Physiology	C	3	3-0-0	3	100	70	-	30	3
MBTL-1075	Genetics and	C	3	3-0-0	3	100	70	-	30	3

	Evolution									
MBTL-1046	Computer Applications and Bioinformatics	IC	3	3-0-0	3	100	70	-	30	3
MBTP-1077	Botany Practicals I	C	6	0-0-3	3	100	-	70	30	6
MBTP-1078	Botany Practicals II	C	6	0-0-3	3	100	-	70	30	6
Student can opt any one of the following Interdisciplinary optional courses		IDE			4	100	70		30	3
Total					24	800				
IDEC-1101 IDEM-1362 IDEH-1313 IDEI-1124 IDEW-12100					Effective Communication Skills Basics of Music (Vocal) Human Rights and Constitutional Duties Basics of Computer Applications Indian Heritage: Contribution to the world (Credits of these courses will not be added to SGPA)					

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO-YEAR DEGREE PROGRAMME
Master of Science (Botany) Semester-II
Session: 2025-26

Course Code	Course Title	Course Type	Hours/week	Credits L-T-P	Total Credits	Marks				Examination time (in Hours)
						Total	L	P	CA	
MBTL-2071	Pteridology	C	3	3-0-0	3	100	70	-	30	3
MBTL-2072	Diversity and Biology of Gymnosperms	C	3	3-0-0	3	100	70	-	30	3
MBTL-2073	General Microbiology	C	3	3-0-0	3	100	70	-	30	3
MBTL-2074	Cell Biology	C	3	3-0-0	3	100	70	-	30	3
MBTL-2075	Ecological Modelling and Forest Ecology	C	3	3-0-0	3	100	70	-	30	3
MBTL-2336	Theoretical Biology	IC	3	3-0-0	3	100	70	-	30	3
MBTP-2077	Botany Practicals I	C	6	0-0-3	3	100	-	70	30	6
MBTP-2078	Botany Practicals II	C	6	0-0-3	3	100	-	70	30	6

MBTI-2079	Summer Training	C		0-0-2	2	Satisfactory/Not satisfactory				
Total					26	800				

Master of Science (Botany) Semester-III
Session: 2025-26

Course Code	Course Title	Course Type			Total Credits	Marks				Examination time (in Hours)
			Hours/w eek	Credits L-T-P		Total	Th.	P	CA	
MBTL-3071	Developmental Botany	C	3	3-0-0	3	100	70	-	30	3
MBTL-3072	Plant Molecular Biology	C	3	3-0-0	3	100	70	-	30	3
MBTL-3073	Plant Breeding and IPR	C	3	3-0-0	3	100	70	-	30	3
MBTL-3074	Plant Biochemistry	C	3	3-0-0	3	100	70	-	30	3
MBTL-3075	Applied Botany	C	3	3-0-0	3	100	70	-	30	3
MBTL-3076	Plant Morphogenesis	C	3	3-0-0	3	100	70		30	3
MBTP-3077	Botany Practicals I	C	6	0-0-3	3	100	-	70	30	6
MBTP-3078	Botany Practicals II	C	6	0-0-3	3	100	-	70	30	6
MBTP- 3079	Assignment	C	0	0-0-0	0	Satisfactory/Not satisfactory				
MBTP- 3070	Seminar	C	0	1-0-0	1	50	-	35	15	3
Student can opt any one of the following Interdisciplinary courses		IDE			4	100	70		30	3
Total					24	800				
IDEC-1101 IDEM-1362 IDEH-1313 IDEI-1124 IDEW-1275			Effective Communication Skills Basics of Music (Vocal) Human Rights and Constitutional Duties Basics of Computer Applications Indian Heritage: Contribution to the world (Credits of these courses will not be added to SGPA)							

Kanya Mahavidyalaya, Jalandhar
SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO-YEAR DEGREE PROGRAMME
Master of Science (Botany) Semester -IV
Session: 2025-26

Course Code	Course Title	Course Type	Hours/week	Credits	Total	Marks	Examination time	No. of Lectu
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				L-T-P	Credits	Total	L	P	CA	(in Hours)	res
MBTL-4071	Plant Anatomy	C	3	3-0-0	3	100	70	-	30	3	6
MBTL-4072	Structure and Metabolism of Plant Hormones	C	3	3-0-0	3	100	70	-	30	3	6
MBTL-4073	Plant Tissue Culture and Biotechnology	C	3	3-0-0	3	100	70	-	30	3	6
MBTL-4074	Analytical Techniques	C	3	3-0-0	3	100	70	-	30	3	6
MBTL-4075	Diversity and Biology of Angiosperms	C	3	3-0-0	3	100	70	-	30	3	6
MBTL-4076 (Opt-I/II)	Optional Paper**	IE	3	3-0-0	3	100	70		30	3	4
MBTP-4077	Botany practical I	C	6	0-0-3	3	100	-	70	30	3	9
MBTP-4078	Botany practical II	C	4	0-0-2	3	50	-	35	15	3	6
MBTF-4079	Field Study	C	-	0-1-0	1	Satisfactory/Not satisfactory					
MBTD-4070	Research Techniques/ Research Project	C	3	0-0-1	1	50	-	35	15	-	3
Total					24	800					

****Student can opt only one paper from the two optional papers.**

List of Optional Papers

1. MBTL-4076(I) Hazardous Chemicals
2. MBTL-4076 (II) Immunology

The house approved the item BOT: 2025:10:6. (Annexure F)

Item: BOT: 2025:10:7 To discuss and approve list of proposed examiners for above stated courses for session 2025-26.

Proceedings: The chairperson discussed the Examiners and Evaluators for Botany papers in Bachelor of Science (Medical) Semester I-VI, Bachelor of Science (Biotechnology) Semester I & IV, Bachelor of Science (Home Science) Semester V and Master of Science (Botany) Semester I-IV with the members and they approved it.

The house approved the item BOT: 2025:10:7. (Annexure G)

Item: BOT: 2025:10:8 To discuss research inputs and plans of department for session 2025-26.

Proceedings: The Chairperson briefed the committee members on the various research initiatives undertaken by the department. She emphasized that the department is well-

equipped with advanced scientific instruments, including a refrigerated centrifuge, spectrophotometer, seed germination chamber, deep freezer, and autoclave, among others—acquired through project grants such as CURIE, DBT Star College, CPE, and FIST from DST. Faculty members have actively participated in numerous conferences, Faculty Development Programs (FDPs), as well as induction and refresher courses conducted by various institutions to enhance their academic and professional competence.

The house approved the item BOT: 2025:10:8.

Item: BOT: 2025:10:9 To discuss teaching methodologies adopted in department and inputs required to upgrade the same.

Proceedings: The Chairperson briefed the committee on the department's adoption of innovative teaching methods, including ICT-based videos, projects, and seminars, which have enhanced students' critical and creative thinking. Teaching effectiveness is maintained through a blended mode of in-person and online instruction, ensuring timely syllabus completion by all faculty members. The department also implements student-centric initiatives such as peer mentoring, group discussions, faculty-guided mentoring, and extra classes for academically weaker students. Smart classrooms, digital resources, and demonstrations aid in simplifying complex concepts. Regular extension lectures by eminent national and international speakers further enrich learning. Additionally, the department conducts lab visits, PowerPoint competitions, quizzes, workshops, and educational trips to support holistic student development and foster scientific curiosity.

The house approved the item BOT: 2025:10:9.

Item: BOT: 2025:10:10 To discuss the outcome of above stated courses and programs.

Proceedings: The course outcomes of above stated courses and programmes were discussed and approved by members of Board of studies.

The house approved the item BOT: 2025:10:10.

Item: BOT: 2025:10:11 To discuss attainment report for the Session 2023-24.

Proceedings: The attainment report for the academic session 2023–24 for B.Sc. Medical and M.Sc. Botany was reviewed and positively acknowledged by the members of the Board of Studies.

The house approved the item BOT: 2025:10:11. (Annexure H)

After discussing all the Agendas, the BOS meeting was summed up by Mrs. Shikha Vashisht and
Vote of Thanks were given.

(Chairperson)
Mrs. Shikha Vashisht
Head,
Department of Botany



Sukhjot Cheema

To: me · Thu, Jul 10 at 2:20 AM ▾

Thanks and approved
Sukhjeet singh cheema
CMD
PUKHRAJ HEALTH CARE PVT LTD
SCF 101 C Urban Estate phase 2
Jalandhar
sukhjeetcheema.com
pukhrajhealthcare.com
pukhrajorganicindia.com



A S Ahluwalia

To: me · Thu, Jul 10 at 3:30 AM ▾



Dear Dr Shikha
I have gone through the document and accord my approval please.
Regards

A S Ahluwalia

Former Chair Professor and ProVC
Contact: 9815984489
Email: amrik.s511@gmail.com

Show trimmed content ▾

SK

Satwinderjeet Kaur

To: me · Sat, Jul 12 at 11:12 AM ✓

I approve the Proceedings of 10th BOS meeting.

Thanks

Prof.(Dr.) Satwinderjeet Kaur

DST-BOYSCAST Fellow; DBT -CREST Fellow

Director, Department of Lifelong Learning

Head, Department of Physiotherapy

Former Head

Deptt. of Botanical & Environmental Sciences

Guru Nanak Dev University

Amritsar 143005, India

NC

Nirmala Chongtham

To: me · Sat, Jul 12 at 3:39 PM ✓

Approved.

Best wishes



Prof. C. Nirmala,
Department of Botany,
Panjab University, Chandigarh-160014
Email: cnirmala@pu.ac.in



Naincy

To: me · Sat, Jul 12 at 7:26 PM ▾

After reviewing the document, I accede to it
and corroborate.
You can finalize the proceedings further.

Thanks & Regards
Naincy
Research Scholar
Department of Botanical and Environmental Sciences
Guru Nanak Dev University, Amritsar