

(Annexure A)

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



**Minutes of 9th Meeting of Board of Studies
Department of Botany**

Date: 19-04-2024

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 9th Meeting of Board of Studies will be held on 19th April 2024 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

KANYA MAHA VIDYALAYA, JALANDHAR
(Autonomous College)
P.G. Department of Botany
Agenda of 9th Meeting of Board of Studies

The Chairperson, Mrs. Shikha Vashisht welcomed and introduced the Members of Ninth Board of Studies. She apprised the members about the events organized by the department to enhance teaching learning activities. She also apprised the house about the research activities of department. After brief overview, she took up the agenda items for deliberation one by one with the permission of committee members.

Item: BOT: 2024:9:1 To discuss and approve the proceedings of Eighth BOS held on 17th June 2023 and Action Taken Report.

Proceedings: The Chairperson sent the proceedings of the previous Board of Studies meeting held on 29th April 2022 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

Eighth Board of Studies Meeting held on 17.06.2023

Sr.No.	Agenda Item	Decision taken in Meeting	Action Taken
<u>Item No.:</u> <u>BOS-8-2023-1</u>	To approve the proceedings of seventh BOS held on 29.04.2022 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.

Item No.: BOS-8-2023-2	To discuss the proposed syllabus of Botany in Bachelor of Science (Medical) Semester I-II under Credit Based Continuous Evaluation Grading System (CBCEGS) with 30% internal assessment for the session 2023-24.	The House suggested that the Internal Assessment should be kept 20% only. The content of the syllabus was approved without any change. The course scheme approved for B.Sc. Medical Sem. I-II under Credit Based Continuous Evaluation Grading System for the session 2023-24 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 colspan="3">Marks</th><th rowspan="2">CA</th><th rowspan="3">EXAM TIME Hrs</th></tr><tr><th rowspan="2">Paper</th><th rowspan="2">Credits</th><th colspan="2">Ext.</th></tr><tr><th>L-T-P</th><th>L</th><th>P</th></tr><tr><td rowspan="3">Botany</td><td rowspan="3">Bachelor of Science (Medical)</td><td>BSM M-1075 (I)</td><td rowspan="3">C</td><td>50</td><td>Diversity of Microbes</td><td>2-0-0</td><td>40</td><td></td><td>10</td><td>3</td></tr><tr><td>BSM M-1075 (II)</td><td>75</td><td>Diversity of Cryptogams</td><td>3-0-0</td><td>60</td><td></td><td>15</td><td>3</td></tr><tr><td>BSM M-1075 (P)</td><td>50</td><td>Practical (based on Diversity of Microbes and Diversity of Cryptogams)</td><td>0-0-2</td><td></td><td>40</td><td>10</td><td>3</td></tr><tr><th colspan="10">Semester –II</th></tr><tr><td rowspan="3">Botany</td><td rowspan="3">Bachelor of Science (Medical)</td><td>BSM M-2075 (I)</td><td rowspan="3">C</td><td>50</td><td>Cell Biology</td><td>2-0-0</td><td>40</td><td></td><td>10</td><td>3</td></tr><tr><td>BSM M-2075 (II)</td><td>75</td><td>Genetics</td><td>3-0-0</td><td>60</td><td></td><td>15</td><td>3</td></tr><tr><td>BSM M-2075 (P)</td><td>50</td><td>Practical (based on Cell Biology and Genetics)</td><td>0-0-2</td><td></td><td>40</td><td>10</td><td>3</td></tr></table>	Semester –I										Course Name	Program Name	Course Code	Course Type	Total Marks	Marks			CA	EXAM TIME Hrs	Paper	Credits	Ext.		L-T-P	L	P	Botany	Bachelor of Science (Medical)	BSM M-1075 (I)	C	50	Diversity of Microbes	2-0-0	40		10	3	BSM M-1075 (II)	75	Diversity of Cryptogams	3-0-0	60		15	3	BSM M-1075 (P)	50	Practical (based on Diversity of Microbes and Diversity of Cryptogams)	0-0-2		40	10	3	Semester –II										Botany	Bachelor of Science (Medical)	BSM M-2075 (I)	C	50	Cell Biology	2-0-0	40		10	3	BSM M-2075 (II)	75	Genetics	3-0-0	60		15	3	BSM M-2075 (P)	50	Practical (based on Cell Biology and Genetics)	0-0-2		40	10	3	The same has been incorporated and the approved syllabus is executed.
Semester –I																																																																																														
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Item No.: BOS-8-2023-3	To discuss the syllabus of Botany in Bachelor of Science (Biotechnology) Semester I under Credit Based Continuous Evaluation Grading System (CBCEGS) with 30% internal assessment for the session 2023-24.	The proposed syllabus of Botany in Bachelor of Science (Biotechnology) Semester I under Credit Based Continuous Evaluation Grading system (CBCEGS) with 20% internal assessment for the session 2023-24 was discussed and approved by Board members without any change in content. <table><tr><th rowspan="2">Course No.</th><th rowspan="2">Course Title</th><th rowspan="2">Course Type</th><th colspan="2">Credits</th><th rowspan="2">Total Credits</th><th rowspan="2">L</th><th rowspan="2">P</th><th rowspan="2">C A</th><th rowspan="2">Marks</th></tr><tr><th>L</th><th>P</th></tr><tr><td>BBTL-1074</td><td>Botany-I</td><td>C</td><td>4</td><td>--</td><td>4</td><td>80</td><td>--</td><td>20</td><td>100</td></tr><tr><td>BBTP-1079</td><td>Lab in Botany-I</td><td>C</td><td>--</td><td>2</td><td>2</td><td>--</td><td>40</td><td>10</td><td>50</td></tr></table>	Course No.	Course Title	Course Type	Credits		Total Credits	L	P	C A	Marks	L	P	BBTL-1074	Botany-I	C	4	--	4	80	--	20	100	BBTP-1079	Lab in Botany-I	C	--	2	2	--	40	10	50	The approved syllabus is executed
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BBTP-1079	Lab in Botany-I	C	--	2	2	--	40	10	50																										
Item No.: BOS-8-2023-4	To discuss the syllabus of Botany in Bachelor of Science (Medical) Semester III - VI under Continuous Evaluation System with 20% internal assessment for the session 2023-24.	The syllabus for Bachelor of Science (Medical) Semester III - VI under continuous evaluation system with 20% internal assessment for the session 2023-24 has been approved.	The approved syllabus is executed																																
Item No.: BOS-8-2022-5	To discuss the proposed syllabus of Botany in Bachelor of Science (Biotechnology) Semester III under continuous evaluation system with 20% internal assessment for	The proposed syllabus for Bachelor of Science (Biotechnology) Semester III under continuous evaluation system with 20% internal assessment for the session 2023-24 was discussed and approved by Board members without any change.	The approved syllabus is executed.																																

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Item No.: BOS-8-2023-6	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 2023-24.	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.	The approved syllabus is executed.																										
Item No.: BOS-8-2023-7	To discuss the proposed syllabus of Master of Science (Botany) Semester I-II under Credit Based Continuous Evaluation Grading System (CBCEGS) with 30% internal assessment for the session 2023-24.	The syllabus of Botany in Master of Science (Botany) Semester I - II under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment for the session 2023-24 was discussed with Board members and was approved without any change in the content. Following points were highlighted and approved. ❖ Overall M. Sc. Botany for session 2023-24 will have 52 credits with 48 mandatory and 4 credits for Inter Disciplinary courses (optional). ❖ The credits of Inter disciplinary courses will not be added in calculation of SGPA/CGPA. These will be qualifying courses only grades will be assigned. ❖ The course scheme approved for M.Sc. Botany Sem. I-IV under Credit Based Continuous Evaluation Grading System for the session 2023-24 is as follows:	Suggestions implemented.																										
		<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>CA</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></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	CA												
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Item No.: BOS-8-2023-8	The syllabus of Master of Science (Botany) Semester III-IV under Credit Based Continuous Evaluation Grading system with 20% internal assessment for the session 2023-24 has already	The syllabus of Master of Science (Botany) Semester III - IV under Credit Based Continuous Evaluation Grading system with 20% internal assessment for the session 2023-24 was approved by the members without any change.	Suggestions implemented.																																																																																																																									

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Item No.: BOS-8-2023-9	To discuss and approve syllabus of certificate course in “ Gardener cum Nursery raisers ” for the session 2023-24.	The syllabus of certificate course in “Gardener cum Nursery raisers” for the session 2023-24 was discussed and approved by Board members. It was suggested to split syllabus into two sections: Theory and Practical. The approved scheme of certificate course is as follows: <table><tr><th rowspan="3">Course Code</th><th rowspan="3">Course Title</th><th rowspan="3">Hours/ Week L-T-P</th><th rowspan="3">Credit</th><th colspan="3">Marks</th><th rowspan="3">Examination time (in Hours)</th></tr><tr><th rowspan="2">Total</th><th colspan="2">Ext.</th></tr><tr><th>L</th><th>P</th></tr><tr><td>GNM-1071</td><td>Gardener cum Nursery Raiser</td><td>4-0-8</td><td>1+1</td><td>100</td><td>50</td><td>50</td><td>3+3</td></tr></table>	Course Code	Course Title	Hours/ Week L-T-P	Credit	Marks			Examination time (in Hours)	Total	Ext.		L	P	GNM-1071	Gardener cum Nursery Raiser	4-0-8	1+1	100	50	50	3+3	Suggestions implemented.
Course Code	Course Title	Hours/ Week L-T-P					Credit	Marks				Examination time (in Hours)												
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GNM-1071	Gardener cum Nursery Raiser	4-0-8	1+1	100	50	50	3+3																	
Item No.: BOS-8-2023-1	To discuss and approve the list of proposed examiners for above stated courses for session 2023-24.	The chairperson discussed the Examiners and Evaluators for Botany papers in Bachelor of Science (Medical) 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.																					

<u>Item No.:</u> <u>BOS-8-2023-11</u>	To discuss research inputs and plans of department for session 2023-24.	The Chairperson apprised the committee members about the research activities taken by department. She explained that department has two Ph.D. teachers, three M.Sc. (NET) and three M.Sc. teachers. Faculty members are engaged in quality research as evident from their publications in high impact factor journals of International and National repute. She apprised that Department has all major sophisticated instruments like Refrigerated centrifuge, spectrophotometer, seed germination chamber, deep freezer, autoclave etc. supported from project grants like DBT star College, CPE & FIST from DST. Teachers also participated in online webinars, FDPs, Induction and refresher courses conducted by various institutions.	Suggestions implemented. 2022.
<u>Item No.:</u> <u>BOS-8-2023-1</u>	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	Suggestions implemented. 1. Van-Mahotsava and Plantation drive on 21 July 2023 2. Botanical Anatomical

		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.	Expedition on 10th Aug, 2023 3. Mentoring Session on Lean Start-up and minimum viable Product on 17th Aug, 2023 4. World Environment Health Day on 15 September 2023 5. Extension Lecture on Transgenic Plants: Opportunities and Biodiversity Concern
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			on 31 October 2023
			6. Education Visit to PAU Ludhiana on 2 November 2023
			7. Diwali Extravaganza (An Exhibition-cum- sale) on 4 November 2023
			8. Mentoring Session by Ms. Harleen Kaur on topic “Creating Innovative Minds” at Kendriya Vidyalaya No. 1, Jalandhar Cantt on

			November 2, 2023 9. Annual Educational Excursion Trip to Mussoorie and Forest Research Institute, Dehradun. February 15-17, 2024 10. Blooming Benefits: Exploring the Economic Impact of Indoor Plants on February 27th, 2024 11. Science Day Celebration on 27 February 2024
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			12. An educational Visit to Bhagwati Timber traders, Jalandhar on 4 th April 2024
<u>Item No.:</u> <u>BOS-8-2023-1</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.	Sugesstions incorporated.
<u>Item No.:</u> <u>BOS-8-2023-1</u>	To discuss result report of December 2022.	The result report of December 2022 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: 2024:9:1.

(Approved proceedings are attached herewith as Annexure A)

Item: BOT: 2024:9:2 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 session 2024-25.

Proceedings: As per the guidelines of NEP 2020, 4 Years degree Programme **Bachelor of Science (Medical)/Honours** has been introduced by KMV w.e.f. 2024-25. **Bachelor of Science (Medical)/Honours** with total 229 credits. As per Academic Council, the internal assessment for **Bachelor of Science (Medical)/Honours Semester I –II** was raised from **20% to 30%**. The exit levels have been defined in the course scheme as follows:

Bachelor of Science/Honours (Medical)
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	SEMESTER-I	
Course Type	List of Courses	Credits
Discipline Specific Courses	• Zoology (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 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) (Hydrocarbons and Alkyl Halides) • Botany (Cell Biology and Genetics)	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/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: States of Matter and Electrochemistry)	4-0-2 4-0-2

	• Botany (Diversity of Phanerogams)	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) • Chemistry (Organic Chemistry-II: Chemistry of O/N containing compounds) • Botany (Plant Physiology and Biochemistry)	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	English Language Skills-3	4-0-0

Course		
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: Thermodynamics and Equilibrium) • Botany (Ecology)	4-0-2 4-0-2 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	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	4-0-0 0-0-1 4-0-0 0-0-1 4-0-0 0-0-1

	• Pteridology • Pteridology Lab	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: 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 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	4-0-0 0-0-1 4-0-0 0-0-1 4-0-0 0-0-1 4-0-0

	• Plant Metabolism Lab	0-0-1
Discipline Specific Courses B.Sc. (Honours) Zoology	• Functional Organisation of Animals- II	3-0-0
	• Functional Organisation of Animals- II Lab	0-0-1
	• Economic Entomology	3-0-0
	• Economic Entomology Lab	0-0-1
	• Applied Zoology (Non Chordates)	3-0-0
	• Applied Zoology (Non Chordates) Lab	0-0-1
	• Evolution	3-0-0
	• Evolution Lab	0-0-1
Minor B.Sc. (Honours) Chemistry B.Sc. (Honours) Botany B.Sc. (Honours) Zoology	Atomic and Molecular Spectroscopy	4-0-0
	Applied Botany	3-0-0
	Applied Botany Lab	0-0-1
	Applied Botany Lab	3-0-0
	Medical Zoology	0-0-1
	Medical Zoology Lab	0-0-1
		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)

Kanya Maha Vidyalaya, Jalandhar (*Autonomous*)

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

Bachelor of Science (Medical)/Honours

Session 2024-2025

B.Sc (Medical) Semester I								
Course Code	Course Name	Course Type	Credits	Total Marks	Ext.		CA	Examination Time (in Hours)
					L	P		
BSML-1421	Punjabi (Compulsory)	C	4	100	70	-	30	3
BSML-1031	¹ Basic Punjabi							
BSML-1431	² Punjab History and Culture							
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 Cryptogams)	DSC	4	100	70		30	3
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 CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM **Bachelor of Science (Medical)/Honours** Session 2024-2025

B.Sc. (Medical) Semester II								
Course Code	Course Name	Course Type	Credits	Total Marks	Ext.		CA	Examination Time (in
					L	P		

								Hours)
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

The house approved the item BOT: 2024:9:2.

Item: BOT: 2024:9:3 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.

Proceedings: In line with the NEP-2020 guidelines, a 4-year Bachelor of Science (Medical)/Honours program has been introduced starting from the 2024-25 session. In this program, the Botany subject will carry 6 credits in each of the first two semesters, which will be conducted under the Credit-Based Continuous Evaluation Grading System (CBCEGS). **As per Academic Council, the internal assessment for Bachelor of Science (Medical)/Honours Semester I –II was raised from 20% to 30%.** 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:

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULLUM OF EXAMINATION OF THREE YEAR DEGREE PROGRAMME

Bachelor of Science (Medical)

(Session 2024-2025)

Botany

Semester –I

Course Name	Program Name	Course Code	Course Type	Total Marks	Marks					
					Paper	Credits	Ext.		CA	EXAM TIME In Hrs
						L-T-P	L	P		
Botany	Bachelor of Science (Medical)	BSML- 1075	DSC	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	Marks					
					Paper	Credits	Ext.			
						L-T-P	L	P	CA	EXAM TIME In Hrs
Botany	Bachelor of Science (Medical)	BSML- 2075	DSC	100	Cell Biology and Genetics	4-0-0	70	-	30	3
		BSMP- 2075		50	Cell Biology and Genetics Lab	0-0-2	-	35	15	3

The BOS members reviewed and approved the detailed syllabus for the 4-year Bachelor of Science (Medical)/Honours program for Semesters I and II under the Credit-Based Continuous Evaluation Grading System (CBCEGS) for the 2024-25 session. (**Approved syllabus attached herewith as Annexure B**)

The house approved the item BOT: 2024:9:3.

Item: BOT: 2024:9:4 To discuss the proposed syllabus of Botany in **Bachelor of Science (Medical) Semester III -IV** under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment for the session 2024-25.

Proceedings: The syllabus of Botany in **Bachelor of Science (Medical)** **Semester III - IV** under Credit Based Continuous Evaluation Grading System (CBCEGS) with 20% internal assessment for the session 2024-25 was discussed with Board members and was approved. The scheme is as follows:

Semester –III										
Course Name	Program Name	Course Code	Course Type	Total Marks	Marks				CA	EXAM TIME In Hrs
					Paper	Credits	Ext.			
						L-T-P	L	P		
Botany	Bachelor of Science (Medical)	BSMM- 3075(I)	C	50	Structure, Development and Reproduction in Flowering Plants-I	2-0-0	40		10	3
		BSMM- 3075 (II)		75	Structure, Development and Reproduction in Flowering Plants-II	3-0-0	60		15	3
		BSMM- 3075 (P)		50	Practical (Based on Papers–I and II)	0-0-2		40	10	3
Semester –IV										
Botany	Bachelor of Science (Medical)	BSMM-4075 (I)	C	50	Diversity of seed Plants and their systematics -I	2-0-0	40		10	3
		BSMM-4075(II)		75	Diversity of seed Plants and their systematics -II	3-0-0	60		15	3
		BSMM- 4075 (P)		50	Practical (Based on Papers–I and II)	0-0-2		40	10	3

The house approved the item BOT: 2024:9:4. (Attached herewith as Annexure C)

Item: BOT: 2024:9:5 To discuss the proposed syllabus of Botany in **Bachelor of Science (Medical) Semester V - VI** under continuous evaluation system with 20% internal assessment for the session 2024-25.

Proceedings: The syllabus of Botany in **Bachelor of Science (Medical) Semester V - VI** under continuous evaluation system with 20% internal assessment for the session 2024-25 was approved by the members without any change.

The house approved the item BOT: 2024:9:5. (Attached herewith as Annexure D)

Item: BOT: 2024:9:6 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.

Proceedings: In accordance with the NEP-2020 guidelines, a 4-year Bachelor of Science (Honours) Biotechnology program has been introduced, effective from the 2024-25 academic session. In this program, the Botany subject will carry 5 credits in Semester I which will be conducted under the Credit-Based Continuous Evaluation Grading System (CBCEGS). **As per Academic Council, the internal assessment for Bachelor of Science (Biotechnology) Semester-I was raised from 20% to 30%. for session 2024-25.**

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULLUM OF EXAMINATION OF THREE YEAR DEGREE PROGRAMME

Bachelor of Science (Hons) Biotechnology Semester-I

(Session 2024-2025)

Botany-I

Course No.	Course Title	Course Type	Credits			Total Credits	L	P	CA	Marks
			L	T	P					

BBTM-1074	Botany-I	Discipline Specific Course (DSC)	4	0	1	4	50	20	30	100
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The house approved the item BOT: 2024:9:6.

(Attached herewith as Annexure E)

Item: BOT: 2024:9:7 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.

Proceedings: 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:

**Bachelor of Science (Biotechnology) Semester-III
(Session 2024-2025)
Botany-II**

Course No.	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 house approved the item BOT: 2024:9:7. (Attached herewith as Annexure F)

Item: BOT: 2024:9:8 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.

Proceedings: 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.

The house approved the item BOT: 2024:9:8. (Attached herewith as Annexure G)

Item: BOT: 2024:9:9 To discuss the proposed syllabus of Botany in **Master of Science (Botany) Semester I - IV** under Credit Based Continuous Evaluation Grading system with 20% internal assessment for the session 2024-25.

Proceedings:

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:

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO-YEAR DEGREE PROGRAMME

Master of Science (Botany) Semester-I

Session: 2024-25

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 Evolution	C	3	3-0-0	3	100	70	-	30	3
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)						

Master of Science (Botany) Semester-II

Session: 2024-25

Course Code	Course Title	Course			Total	Marks	Examination
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		Type	Hours/ week	Credits L-T-P	Credits	Total	L	P	CA	n time (in Hours)
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				
Total					24	800				

Master of Science (Botany) Semester-III

Session: 2024-25

Course Code	Course Title	Course Type	Hours/ week	Credits L-T-P	Total Credits	Marks				Examination time (in Hours)
						Total	L	P	CA	
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

Session: 2024-25

Course Code	Course Title	Course Type	Hours/week	Credits L-T-P	Total Credits	Marks				Examination time (in Hours)	No. of Lectures
						Total	L	P	CA		
MBTL-4071	Plant Anatomy	C	3	3-0-0	3	75	60	-	15	3	6
MBTL-4072	Structure and Metabolism of Plant Hormones	C	3	3-0-0	3	75	60	-	15	3	6
MBTL-4073	Plant Tissue Culture and Biotechnology	C	3	3-0-0	3	75	60	-	15	3	6
MBTL-4074	Analytical Techniques	C	3	3-0-0	3	75	60	-	15	3	6
MBTL-4075	Diversity and Biology of Angiosperms	C	3	3-0-0	3	75	60	-	15	3	6
MBTL-4076 (Opt-I/II)	Optional Paper**	IE	3	3-0-0	3	75	40		15	3	4
MBTP-4077	Botany Practicals I	C	6	0-0-3	3	75	-	60	15	3	9
MBTP-4078	Botany Practicals II	C	4	0-0-2	2	50	-	40	10	3	6
MBTD-4079	Field Study and Research Techniques	C		0-2-0	2	50	-	40	10	-	3+3
Total					25	625					

****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: 2024:9:9.(Attached herewith as Annexure H)

Item: BOT: 2024:9:10 The certificate course “Gardener cum Nursery Raisers” has been discontinued from the session 2024-25.

Proceedings: 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.

The house approved the item BOT: 2024:9:10.

Item: BOT: 2024:9:11 To discuss and approve list of proposed examiners for above stated courses for session 2024-25.

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 & III, 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: 2024:9:11.

Item: BOT: 2024:9:12 To discuss research inputs and plans of department for session 2024-25.

Proceedings: Chairperson apprised the committee members about the research activities taken by department. She explained that department has two Ph.D. teachers, two M.Sc. (NET) and two M.Sc. teachers. She apprised that Department has all major sophisticated instruments like Refrigerated centrifuge, spectrophotometer, seed germination chamber, deep freezer, autoclave etc. supported from project grants like DBT star College, CPE & FIST from DST. Teachers also participated in online

webinars, FDPs, Induction and refresher courses conducted by various institutions to improve their academic skills.

The house approved the item BOT: 2024:9:12.

Item: BOT: 2024:9:13 To discuss teaching methodologies adopted in department and inputs required to upgrade the same.

Proceedings:

The chairperson informed the committee members about the department's adoption of innovative teaching methods, including ICT-based educational videos, projects, and seminars, which have fostered critical and creative thinking skills among students. The department has maintained a high level of teaching effectiveness by continuing to offer education through a blend of in-person and online approaches, ensuring that all teachers complete their syllabi on time. Additionally, the department emphasizes various student-focused initiatives, such as peer mentoring, group discussions, teacher-guided student mentoring, and extra classes for those needing additional support. Equipped with smart classrooms, digital content, and demonstrations, the department enhances students' understanding of complex concepts. Regular extension lectures are delivered by distinguished speakers from around the world. Furthermore, the department organizes activities like lab visits, PowerPoint presentation competitions, quizzes, workshops, and educational trips to promote students' overall development and ignite their passion for science.

The house approved the item BOT: 2024:9:13.

Item: BOT: 2024:9:14 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: 2024: 9: 14

Item: BOT: 2024:9:15 To discuss attainment report of December 2023.

Proceedings: 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. **(Attainment report is attached herewith as Annexure-I).**

The house approved the Item: BOT: 2024: 9: 15

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