

Kanya Maha Vidyalaya, Jalandhar City

(An Autonomous College)



Minutes of 10th Meeting of Board of Studies
Department of Bio-Technology
Via Zoom video conferencing
Date: 24-05-2025
Time: 01:00 PM

KANYA MAHA VIDYALAYA, JALANDHAR
(UGC Autonomous College)
Agenda of the tenth Meeting of Board of studies
Department of Bio-Technology
Meeting by Circulation

Tenth meeting of the Board of Studies will be held online through zoom. The zoom meeting for the Department of Bio-Technology has been fixed on 24.05.2025 at 1:00 PM.

Members of Board of Studies:

1.	Dr. Manju Sahni, Head and Associate Professor, PG Department of Chemistry, Kanya Maha Vidyalaya, Jalandhar	Chairperson
2.	Dr. Pratap Kumar Pati, Professor, Department of Biotechnology, Guru Nanak Dev University, Amritsar (GNDU Nominee)	Member
3.	Dr. Neena Caplash, Professor, Department of Biotechnology, Panjab University, Chandigarh (Outside Nominee)	Member
4.	Dr. Jagdeep Kaur, Professor, Department of Biotechnology, Panjab University, Chandigarh (Outside Nominee)	Member
5.	Dr. Kamaljit Singh, Managing Director, Green Planet Bioproducts, GP tower, 1-Amar Garden, Near Pathankot Chowk, NH-1, Jalandhar (Industry Expert)	Member
6.	Dr. Himadri, Associate professor, A & M institute of computer and Technology, Punjab technical university, Pathankot, Punjab (Alumni)	Member
7.	Dr. Sandeep Kaur Saggu, Assistant Professor, Department of Bio-Technology, Kanya Maha Vidyalaya, Jalandhar	Member

Agenda

Item: Bio 10: 2025: 1 To discuss and approve the minutes of ninth Board of Studies meeting held on 18.04.2024 and Action Taken Report (**Annexure A**).

Item: Bio 10: 2025: 2 To discuss proposed syllabus of **B.Sc. Bio-Technology semester-I, II, III and IV** under Credit Based Continuous Evaluation Grading System with 30% internal assessment for the session 2025-26 (**Annexure B**).

Item: Bio 10: 2025: 3 To discuss proposed syllabus of **B.Sc. Bio-Technology semester- V and VI** under Credit Based Continuous Evaluation Grading System with 20% internal assessment for the session 2025-26 (**Annexure C**).

Item: Bio 10: 2025:4 To discuss the syllabus of Introduction to Bacteriology and Virology and Basics of Microbiology-I of **B.Sc. Medical Laboratory Technology Semester- III** and Basics of Microbiology-II for **BSc Medical Laboratory Technology-IV** under Credit Based Continuous Evaluation Grading System with 30% internal assessment for the session 2025-26 (**Annexure D**).

Item: Bio 10: 2025: 5 To discuss the list of proposed examiners for above stated courses (**Annexure E**).

Item: Bio 10: 2025: 6 To discuss teaching methodologies adopted in the department and inputs required to upgrade the same (**Annexure F**).

Item: Bio 10: 2025: 7 To discuss research inputs and plans of department for session 2025-26 (**Annexure G**).

Item: Bio 10: 2025: 8 To discuss the outcomes of above stated courses and programs.

Item: Bio 10: 2025: 9 To discuss the result analysis for the session 2024-25 (**Annexure H**).

(Chairperson)

Dr. (Mrs.) Manju Sahni,

Dean Life Sciences

Kanya Maha Vidyalaya, Jalandhar

Proceedings of the Meeting of Board of Studies held on 24-05-2025

The tenth meeting of the Board of Studies of Bio-Technology was held on **24-05-2025 at 1:00 pm through Zoom.**

The following members have attended meeting and detailed minutes are listed below:

S.NO	Details of Member	Presence/Absence
1.	Dr. Manju Sahni, Head and Associate Professor, PG Department of Chemistry, Kanya Maha Vidyalaya, Jalandhar (Chairperson)	Present
2.	Dr. Pratap Kumar Pati, Professor & Head, Department of Biotechnology, Guru Nanak Dev University, Amritsar (Parent University Nominee)	Present
3.	Dr. Neena Caplash, Professor, Department of Biotechnology, Panjab University, Chandigarh (Outside University Nominee)	Present
4.	Dr. Jagdeep Kaur, Professor, Department of Biotechnology, Panjab University, Chandigarh (Outside University Nominee)	Absent
5.	Dr. Himadri, Associate professor, A & M institute of computer and Technology, Punjab technical university, Pathankot, Punjab (Alumni)	Present
6.	Dr. Kamaljit Singh, Managing Director, Green Planet Bioproducts, GP tower, 1-Amar Garden, Near Pathankot Chowk, NH-1, Jalandhar (Industry Expert)	Present
7.	Dr. Sandeep Kaur Saggu, Assistant Professor, Department of Bio-Technology (Internal Member)	Present

The Chairperson Dr. Manju Sahni welcomed and introduced the Members of Board of studies. She apprised the members about the Programme in department along with teaching and research

strengths of the department. She highlighted the progress made by department in establishing sophisticated labs with high end instrumentation and glory of the department at National & International Scenario. She took up the agenda items for deliberation one by one with the permission of committee members.

Item: Bio 10: 2025: 1

To discuss and approve the minutes of ninth Board of Studies meeting held on 18.04.2024 and Action Taken Report.

The minutes and Action Taken Report of the previous Board of Studies meeting held on 18.04.2024 were sent through email to all the members and were approved by all the members. The Chairperson however again put up the summary of the minutes and Action Taken Report for approval of the house and they approved it through Zoom meeting. **(attached herewith as Annexure A)**

The house approved the Bio 10: 2025: 1

Action Taken Report

S. No.	Agenda Item	Decision taken in Meeting	Action Taken
<u>Item: Bio 9: 2024: 2</u>	To discuss proposed syllabus of B.Sc. Bio-Technology semester-I and II under Credit Based Continuous Evaluation Grading System with 20% internal assessment for the session 2024-25.	As per the guidelines of NEP 2020, 4 Years degree Programme Bachelor of Science (Honours) Bio-Technology has been introduced by Kanya Maha Vidyalaya w.e.f. 2024-25 with total credits 203. As per Academic Council, the internal assessment for Bachelor of Science (Honours) Bio-Technology Sem I and	The syllabus approved in the minutes by the BOS members has been executed.

		It was raised from 20% to 30%. The exit levels have been defined in the course scheme as follows: 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) The syllabus was approved with following changes:	
	BSc Bio-Technology Sem -I Biochemistry-I (Theory and practical) Course Code: BBTM-1083	It was decided to add - glycosaminoglycans in unit-2 - Biological importance of lipids in unit-3 - Biological importance of proteins in unit-4	The changes were approved and executed.
	BSc Bio-Technology Sem -I General Microbiology-I (Theory and practical) Course Code: BBTM-	It was decided to add experiment titled” introduction to microbiology laboratory and its equipments” in	The changes were approved and executed

	1345	practical syllabus.	
	BSc Bio-Technology Sem -II Genetics (Theory and practical) Course Code: BBTM-2063	It was decided to •Shift Mutation: Spontaneous versus induced mutations, types of mutations, mutations rate and frequency, Mutagens: Physical and chemical, the molecular basis of mutations. Significance and practical applications of mutation from unit-3 to unit-2. • Add Extra Chromosomal (Cytoplasmic) Inheritance: features; inheritance of mitochondrial DNA, chloroplast DNA, kappa articles in Paramecium, Sigma factor in Drosophila, cytoplasmic male sterility (CMS) in maize in unit-3 • Add Chromosomal aberrations: Structural: deletion, duplication,	The changes were approved and executed

		inversion, translocation; Numerical: polyploidy, aneuploidy; significance of chromosomal aberrations in unit-3	
	BSc Bio-Technology Sem -II Fundamentals of Biotechnology (Theory and practical) Course Code: BBTM- 2065	It was decided to shift this course from semester-III into semester-II.	The changes were approved and executed
	BSc Bio-Technology Sem -II Industrial Biotechnology-I (Theory and practical) Course Code: BBTM- 2060	It was decided to shift this course from semester-IV into semester-II with following Changes: • To add Production of Tetracycline and penicillin in Unit-IV	The changes were approved and executed
	BSc Bio-Technology Sem -II General Microbiology-II	It has been decided to shift this course from Semester II to a later semester (Semester VII).	The changes were approved and executed
	BSc Bio-Technology Sem -II Biochemistry-II	It was decided to shift this course from Semester II to a later semester (Semester	The changes were approved and executed

		IV).	
<u>Item: Bio 9: 2024: 3</u>	To discuss proposed syllabus of B.Sc. Bio-Technology semester-III and IV under Credit Based Continuous Evaluation Grading System with 20% internal assessment for the session 2024-25.	The Board of Studies members discussed the proposed syllabus of B.Sc. Bio-Technology semester-III and IV under Credit Based Continuous Evaluation Grading system with 20% internal assessment for the session 2024-25. It was approved by all the members with no major changes in the syllabus except one.	The syllabus approved in the minutes by the BOS members has been executed.
	BSc Bio-Technology Sem -IV Status report of Industrial/ Institutional Visit BBTF-2063	It was decided to change course title from “Industrial/ Institutional Visit” to “Status report of Industrial/ Institutional Visit”	The changes were approved and executed
<u>Item: Bio9: 2024: 4</u>	To discuss the syllabus of B.Sc. Bio-Technology semester-V and VI under Continuous Evaluation System for the session 2024-25.	The Board of Studies members discussed the proposed syllabus of B.Sc. Bio-Technology semester-V and VI under continuous evaluation system for the session 2024-25. It was approved by all the members with no change in syllabus.	The syllabus approved in the minutes by the BOS members has been executed.

<u>Item: Bio 9: 2024:5</u>	To discuss the list of proposed examiners for above stated courses.	The Chairperson discussed and approved the list of proposed examiners for above stated courses with Board of Studies members for the session 2024-25.	The list of examiners was approved and sent to COE office.
<u>Item: Bio 9: 2024:6</u>	To discuss teaching methodologies adopted in the department and inputs required to upgrade the same.	The Chairperson discussed the teaching methodologies adopted in the department. The members appreciated the teaching methodologies adopted in the department.	Various activities were organized in department in session 2024-25: • Idea presentation competition on Innovative Bio-Tech Start-ups: Transforming Impossible to Possible on 17 August, 2024 • Poster Making Competition entitled Trailblazing Bio-Tech: Innovations for a better tomorrow on 10 September, 2024 • Prototype Building Competition on InnoStart Lab: Innovating ideas to kick start startups on 24 September, 2024

			• The future of biotechnology: Career insights and opportunities on 05 October, 2024 • Bio-Innovation Exhibition: Crafting the Future of Bio-Technology Today on 10 October, 2024 • Workshop on entrepreneurship and innovation as a career opportunity on 13 November, 2024 • Educational visit to Guru Nanak Dev University, Amritsar on 19 November, 2024 • Quiz Competition on Innovate Biotech: Skills for the future on 24 January, 2025 • Workshop on "Hands-on Biotech: Bridging science and startup success" on 05 February, 2025 • Visit to Central Institute of Hand Tools for "An
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			Awareness Programme of Design Component Under MSME Innovation Scheme” on 06 February, 2025 • Workshop on Prototype/Process Design and Development on 04 March, 2025 • Greenovation Exhibition: Cultivating Skills and Startups through Plantation on 25 March, 2025 • Expert talk on BioConnect: Bridging, Skills and Entrepreneurship on 29 March, 2025 • Alumni talk on Biotech, Business & Beyond: An Alumna’s Global Journey on 02 April, 2025 • Plantation drive on 03 April, 2025 • Seminar on Start Smart Biotech: Skill
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			training for future founders on 05 April, 2025 • Awareness camp on “World Health Day Celebration: Empowering minds and bodies” on 07 April, 2025
<u>Item: Bio 9: 2024: 7</u>	To discuss research inputs and plans of department for session 2024-25.	The house highly appreciated that the faculty members are actively involved in research and said their input reflects from their publications. They have also encouraged the faculty members to indulge themselves more in research and writing papers.	Faculty members keep students engaged in number of extension practical and small research projects. Research paper Dr. Sandeep Kaur Saggu published research paper entitled “Antibacterial and Insecticidal Activities of <i>Bacillus licheniformis</i> SKS7 Methanolic Extract” in journal named “Anti-Infective Agents” in October, 2024. Book chapters Dr. Sandeep Kaur Saggu published book chapter entitled “Novel Approaches to alleviate lignocellulosic Biomass waste for effective and

			sustainable utilization” in book entitled “Value Addition and Utilization of lignocellulosic Biomass” in March, 2025.
<u>Item: Bio 9: 2024: 8</u>	To discuss the outcomes of above stated courses and programs.	The Chairperson discussed the outcomes of above stated courses and programs with the Board of Studies members. The members approved the outcomes of above stated courses with no change.	The house approved the Bio 9: 2024: 8
<u>Item: Bio 9: 2024:9</u>	To discuss the result analysis for the session 2023-24.	The Chairperson discussed the result analysis for the session 2023-24 with the Board of Studies member.	Remedial classes and mentoring sessions were conducted to support low-performing students and improve overall academic outcomes.

The house approved the Bio 10: 2025: 1

Item: Bio 10: 2025: 2 To discuss proposed syllabus of **B.Sc. Bio-Technology semester-I, II, III and IV** under Credit Based Continuous Evaluation Grading System with 30% internal assessment for the session 2025-26 (**Annexure B**).

Proceedings:

The proposed syllabus and course outcomes of **B.Sc. Bio-Technology semester-I-IV under credit Based Continuous Evaluation Grading System for the session 2025-26** was discussed by board members and they approved the syllabus with 30% internal assessment with following changes.

Semester	Name of the Course and course code	Section in which changes were made	2024-25	2025-26
Sem I	Biochemistry-I and BBTM-1083	Course outcomes	It was decided to add - glycosaminoglycans in unit-2 - Biological importance of lipids in unit-3 Biological importance of proteins in unit-4	Course outcomes have been modified
Sem I	General Microbiology I and BBTM-1345	Unit 3	It was decided to add experiment titled” introduction to microbiology laboratory and its equipments” in practical syllabus.	It was decided to add the topic “Physiology of micro-organisms” in Unit 3
Sem II	Genetics Course Code: BBTM-2063	Unit 2 and 3	It was decided to - Shift Mutation: Spontaneous versus induced mutations, types of mutations, mutations rate and frequency, Mutagens: Physical and chemical, the molecular basis of mutations. Significance and practical applications of mutation from unit-3 to unit-2. - Add Extra Chromosomal (Cytoplasmic) Inheritance: features;	

			inheritance of mitochondrial DNA, chloroplast DNA, kappa articles in Paramecium, Sigma factor in Drosophila, cytoplasmic male sterility (CMS) in maize in unit-3 • Add Chromosomal aberrations: Structural: deletion, duplication, inversion, translocation; Numerical: polyploidy, aneuploidy; significance of chromosomal aberrations in unit-3	
Sem II	Fundamentals of Biotechnology Course Code: BBTM-2065		It was decided to shift this course from semester-III into semester-II.	
Sem II	Industrial Biotechnology-I Course Code: BBTM-2060		It was decided to shift this course from semester-IV into semester-II with following Changes: • To add Production of Tetracycline and penicillin in Unit-IV	
Sem II	General Microbiology-II		It has been decided to shift this course from Semester II to a later	

			semester (Semester VII).	
Sem IV	Biochemistry II and BBTM 4084	Unit 3 and 4	It was decided to shift this course from Semester II to a later semester (Semester IV).	It was decided to add: • Effect of temperature and pH on enzyme activity and Estimation of enzymes such as α-amylase, acid phosphatase, and catalase to demonstrate enzyme function and their response to temperature and pH in Unit 3. • Competitive and non-competitive inhibition in Unit 4.
Sem IV	Status report of Industrial/ Institutional Visit BBTF-2063		It was decided to change course title from “Industrial/ Institutional Visit” to “Status report of Industrial/ Institutional Visit”	It has been discontinued

Scheme Pages of B.Sc. (Bio-Technology) (Honours) Semester-I to IV are as follows:

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF FOUR YEAR DEGREE
PROGRAMME

Bachelor of Science (Bio-Technology) Three Year Degree Programme
Bachelor of Science (Honours) Bio-Technology Four Year Degree Programme

Session: 2025-26

Semester-I

Course No.	Course Title	Course Type	Hours per week	Credits			Total Credits	L	P	CA	Total Marks
				L-T-P							
BBTL -1421 BBTL -1031 BBTL -1431	Punjabi (Compulsory) ¹ Basic Punjabi ² Punjab History and Culture	C	4-0-0	4	0	0	4	70	-	30	100
BBTM-1102	Communication Skills in English-I	AEC	3-0-2	3	0	1	4	50	20	30	100
BBTM -1083	Biochemistry-I	DSC	4-0-2	4	0	1	5	50	20	30	100
BBTM-1074	Botany-I	DSC	4-0-2	4	0	1	5	50	20	30	100
BBTM-1345	General Microbiology-I	DSC	4-0-2	4	0	1	5	50	20	30	100
VACF-1491	*Foundation Course	VAC	2-0-0	2	0	0	2	35	-	15	50
Total Credits							25				

¹ Special Course in lieu of Punjabi (Compulsory)

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

*Credits of these papers will not be added towards SGPA/CGPA and only grades will be provided.

C: Compulsory Course

AEC: Ability Enhancement Course

DSC: Discipline Specific Courses

VAC: Value Added Course

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF FOUR YEAR DEGREE PROGRAMME
Bachelor of Science (Bio-Technology) Three Year Degree Programme
Bachelor of Science (Honours) Bio-Technology Four Year Degree Programme
Session: 2025-26
Semester-II

Course No.	Course Title	Course Type	Hours per week	Credits L-T-P	Total Credits	L	P	CA	Total Marks
BBTL -2421 BBTL -2031 BBTL -2431	Punjabi (Compulsory) ¹ Basic Punjabi ² Punjab History and Culture	C	4-0-0	4-0-0	4	70	-	30	100
BBTM-2102	Communication Skills in English-II	AEC	3-0-2	3-0-1	4	50	20	30	100
BBTM -2063	Genetics	DSC	4-0-2	4-0-1	5	50	20	30	100
BBTM-2484	Cell Biology	DSC	4-0-2	4-0-1	5	50	20	30	100
BBTM-2065	Fundamentals of Biotechnology	DSC	4-0-2	4-0-1	5	50	20	30	100
BBTM-2060	Industrial Biotechnology -I	SEC	2-0-2	2-0-1	3	50	20	30	100
VACD-2161	*Drug Abuse: Problem, Management and Prevention (Compulsory)	VAC	2-0-0	2-0-0	2	35	-	15	50
Total Credits					28				

¹ Special Course in lieu of Punjabi (Compulsory)

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

*Credits of these papers will not be added towards SGPA/CGPA and only grades will be provided.

C: Compulsory Course

AEC: Ability Enhancement Course

DSC: Discipline Specific Courses

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 (Bio-Technology) Three Year Degree Programme
Bachelor of Science (Honours) Bio-Technology Four Year Degree Programme
Session: 2025-26
Semester-III

Course No.	Course Title	Course Type	Hours per week	Credits L-T-P	Total Credits	L	P	CA	Total Marks
BBTM-3061	Gene Structure and Function	DSC	3-0-2	3-0-1	4	50	20	30	100
BBTM-3332	Biomathematics and Biostatistics	DSC	4-0-2	4-0-1	5	50	20	30	100
BBTM-3483	Zoology-I	DSC	4-0-2	4-0-1	5	50	20	30	100
BBTM-3064	Immunology-I	DSC	4-0-2	4-0-1	5	50	20	30	100
BBTM-3085	Chemistry-I	MDC	3-0-2	3-0-1	4	50	20	30	100
VACE 3221	*Environmental Studies (Compulsory)	VAC	1-0-2	1-0-1	2	20	15	15	50
Total Credits					25				

***Credits of these papers will not be added towards SGPA/CGPA and only grades will be provided.**

DSC: Discipline Specific Courses

MDC: Multidisciplinary Course

VAC: Value Added Course

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF FOUR YEAR DEGREE PROGRAMME
Bachelor of Science (Bio-Technology) Three Year Degree Programme
Bachelor of Science (Honours) Bio-Technology Four Year Degree Programme
Session: 2025-26
Semester-IV

Course No.	Course Title	Course Type	Hours per week	Credits L-T-P	Total Credits	L	P	CA	Total Marks
BBTM-4061	Molecular Biology	DSC	4-0-2	4-0-1	5	50	20	30	100
BBTM-4062	Biochemical and Biophysical Techniques-I	DSC	4-0-2	4-0-1	5	50	20	30	100
BBTM-4073	Botany-II	DSC	3-0-2	3-0-1	4	50	20	30	100
BBTM-4084	Biochemistry-II	DSC	4-0-2	4-0-1	5	50	20	30	100
BBTM-4085	Chemistry-II	MDC	3-0-2	3-0-1	4	50	20	30	100
BBTM-4060	Skill development in Biotechnology-I	SEC	2-0-2	2-0-1	3	50	20	30	100
VACG-4531	*Gender sensitization	VAC	1-0-2	1-0-1	2	20	15	15	50
	Total Credits				28				

***Credits of these papers will not be added towards SGPA/CGPA and only grades will be provided.**

DSC: Discipline Specific Courses

MDC: Multidisciplinary course

SEC: Skill Enhancement Course

VAC: Value Added Course

Item: Bio 10: 2025: 3 To discuss proposed syllabus of **B.Sc. Bio-Technology semester- V and VI** under Credit Based Continuous Evaluation Grading System with 20% internal assessment for the session 2025-26 (**Annexure C**).

Proceedings:

The Board of Studies members discussed the proposed syllabus of **B.Sc. Bio-Technology semester-V and VI** under Credit Based Continuous Evaluation Grading system with 20% internal assessment for the session 2024-25. It was approved by all the members with no change in syllabus (**Annexure C**).

The scheme of Bachelor of Science (Bio-Technology) semester-V and VI are as follows:

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAMME
Bachelor of Science (Bio-Technology)
Session: 2025-26
Semester-V

Course No.	Course Title	Course Type	Credit hours	Credits L-T-P	Total Credits	L	P	CA	Total Marks
BBTL 5061	rDNA Technology-I	C	3-0-0	3-0-0	3	60	-	15	75
BBTL-5062	Animal Biotechnology-I	C	3-0-0	3-0-0	3	60	-	15	75
BBTL-5063	Plant Biotechnology-I	C	3-0-0	3-0-0	3	60	-	15	75
BBTL-5064	Bioprocess Engineering-I	C	3-0-0	3-0-0	3	60	-	15	75
BBTL-5065	Biochemical and Biophysical Techniques-I	C	2-0-0	2-0-0	2	40	-	10	50
BBTL-5066	Industrial Biotechnology-II	C	2-0-0	2-0-0	2	40	-	10	50
BBTP-5061	Lab in rDNA Technology-I	C	0-0-2	0-0-1	1	-	20	5	25
BBTP-5062	Lab in Animal Biotechnology-I	C	0-0-2	0-0-1	1	-	20	5	25
BBTP-5063	Lab in Plant Biotechnology-I	C	0-0-2	0-0-1	1	-	20	5	25
BBTP-5064	Lab in Bioprocess Engineering-I	C	0-0-2	0-0-1	1	-	20	5	25
BBTP-5065	Lab in Biochemical and Biophysical Techniques-I	C	0-0-2	0-0-1	1	-	20	5	25
BBTP-5066	Lab in Industrial Biotechnology-II	C	0-0-2	0-0-1	1	-	20	5	25
VACP-5551	*Job readiness Course	VAC	2-0-0	2-0-0	2	40	-	10	50
Total Credits					24				

***Credits of these papers will not be added towards SGPA/CGPA and only grades will be provided.**

C-Compulsory

VAC: Value Added Course

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAMME
Bachelor of Science (Bio-Technology)
Session: 2025-26
Semester-VI

Course No.	Course Title	Course Type	Credit hours	Credits L-T-P	Total Credits	L	P	CA	Total Marks
BBTL-6061	rDNA Technology-II	C	3-0-0	3-0-0	3	60	-	15	75
BBTL-6062	Animal Biotechnology-II	C	3-0-0	3-0-0	3	60	-	15	75
BBTL-6063	Plant Biotechnology-II	C	3-0-0	3-0-0	3	60	-	15	75
BBTL-6064	Bioprocess Engineering-II	C	3-0-0	3-0-0	3	60	-	15	75
BBTL-6085	Chemistry-III	C	2-0-0	2-0-0	2	40	-	10	50
BBTL-6066	Biochemical and Biophysical Techniques-II	C	2-0-0	2-0-0	2	40	-	10	50
BBTP-6061	Lab in rDNA Technology-II	C	0-0-2	0-0-1	1	-	20	5	25
BBTP-6062	Lab in Animal Biotechnology-II	C	0-0-2	0-0-1	1	-	20	5	25
BBTP-6063	Lab in Plant Biotechnology-II	C	0-0-2	0-0-1	1	-	20	5	25
BBTP-6064	Lab in Bioprocess Engineering-II (Industrial Training)	C	0-0-2	0-0-1	1	-	20	5	25
BBTP-6085	Lab in Chemistry-III	C	0-0-2	0-0-1	1	-	20	5	25
BBTP-6066	Lab in Biochemical and Biophysical Techniques-II	C	0-0-2	0-0-1	1	-	20	5	25
Total Credits					22				

*Credits of these papers will not be added towards SGPA/CGPA and only grades will be provided.

C-Compulsory

The house approved the Bio 10: 2025: 3

Item: Bio 10: 2025: 4 To discuss the syllabus of Introduction to Bacteriology and Virology and Basics of Microbiology-I of **B.Sc. Medical Laboratory Technology Semester- III** and Basics of Microbiology-II for **BSc Medical Laboratory Technology-IV** under Credit Based Continuous Evaluation Grading System with 30% internal assessment for the session 2025-26 (**Annexure D**).

Proceedings:

The Board of Studies members discussed the proposed syllabus of Introduction to Bacteriology and Virology and Basics of Microbiology-I of **B.Sc. Medical Laboratory Technology Semester- III** and Basics of Microbiology-II for **BSc Medical Laboratory Technology-IV** Credit Based Continuous Evaluation Grading System with 30% internal assessment for the session 2025-26. It was approved by all the members with few changes in syllabus (**Annexure D**).

The scheme of Bachelor of Science (Medical Laboratory Technology) semester-III and IV are as follows:

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of four year degree programme

Bachelor of Science (Honours) (Medical Laboratory Technology) (Semester -III)											
Course Code	Course Title	Course Type	Total Credits (L-T-P)	Credit Hours			Total Marks	Marks			Exam Time in Hrs
				L	T	P		L	P	CA	
BMLL-3064	Introduction to Bacteriology and Virology	DSC	3-0-0	3	-	-	100	70	-	30	3
BMLP-3064	Introduction to Bacteriology and Virology Lab	DSC	0-0-1	-	-	2	50	-	35	15	3
BMLL-3065	Basics of Microbiology-I	DSC	3-0-0	3	-	-	100	70	-	30	3
BMLP-3065	Basics of Microbiology-I Lab	DSC	0-0-1	-	-	2	50	-	35	15	3

Session: 2025-26

DSC: Discipline Specific Course

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF FOUR YEAR DEGREE
PROGRAMME
Bachelor of Science (Bio-Technology)

Session: 2025-26

Bachelor of Science (Honours) (Medical Laboratory Technology) (Semester -IV)											
Course Code	Course Title	Course Type	Total Credits (L-T-P)	Credit Hours			Total Marks	Marks			Exam Time in Hrs
				L	T	P		L	P	CA	
BMLL-4064	Basics of Microbiology-II	DSC	3-0-0	3	-	-	100	70	-	30	3
BMLP-4064	Basics of Microbiology-II Lab	DSC	0-0-1	-	-	2	50	-	35	15	3

DSC-Discipline Specific Course

The house approved the Bio 10: 2025: 4

Item: Bio 10: 2025: 5 To discuss the list of proposed examiners for above stated courses (Annexure E).

Proceedings:

The Chairperson discussed and approved the list of proposed examiners for above stated courses with Board of Studies members for the session 2025-26 (Annexure E).

The house approved the Bio 10: 2025: 5

Item: Bio 10: 2025:6 To discuss teaching methodologies adopted in the department and inputs required to upgrade the same (Annexure F).

Proceedings:

The Chairperson discussed the teaching methodologies adopted in the department. The members appreciated the teaching methodologies adopted in the department.

The house approved the Bio 10: 2025: 6

Item: Bio 10: 2025: 7 To discuss research inputs and plans of department for session 2025-26 (**Annexure G**).

Proceedings:

The house highly appreciated that the faculty members are actively involved in research and said their input reflects from their publications. They have also encouraged the faculty members to indulge themselves more in research and writing papers.

The house approved the Bio 10: 2025: 7

Item: Bio 10: 2025: 8 To discuss the outcomes of above stated courses and programs.

Proceedings:

The Chairperson discussed the outcomes of above stated courses and programs with the Board of Studies members. The members approved the outcomes of above stated courses.

The house approved the Bio 10: 2025: 8

Item: Bio 10: 2025:9 To discuss the result analysis for the session 2024-25 (**Annexure H**).

Proceedings:

The Chairperson discussed the result analysis for the session 2024-25 with the Board of Studies member and they approved it.

The house approved the Bio 10: 2025: 9

(Chairperson)
Mrs. Manju Sahni,
Head and Associate Professor,
PG Department of Chemistry,
Kanya Maha Vidyalaya, Jalandhar