

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



**11<sup>th</sup> Meeting of Board of Studies**

**PG Department of Mathematics**

**Date: 13.07.2026**

**Time: 12:00 pm onwards**

**Online Meeting via Zoom**

## PG Department of Mathematics

### Eleventh Meeting of Board of Studies held on 13.07.2026

The Eleventh meeting of the board of studies was held in online mode via zoom on

**Date:** 13.07.2026

**Time:** 12:00 pm onwards

**Mode:** Online Meeting via Zoom

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

| Sr. No. | Name of the members                                                                                                                           | Designation                                      | Attendance |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------|
| 1       | Ms. Anand Prabha<br>Assistant Professor and Head<br>PG Department of Mathematics<br>Kanya Maha Vidyalaya, Jalandhar                           | Chairperson                                      | Present    |
| 2.      | Dr. Jitender Kumar<br>Assistant Professor<br>Department of Mathematics<br>Guru Nanak Dev University, Amritsar                                 | Member<br>(University Nominee)                   | Present    |
| 3.      | Dr. Raghaw Raman Sinha<br>Associate Professor<br>Department of Mathematics<br>Dr. B R Ambedkar National Institute of<br>Technology, Jalandhar | Member<br>(Outside Parent<br>University Nominee) | Present    |
| 4.      | Dr. Sanjeev Kumar<br>Assistant Professor<br>School of Mathematics.<br>Thapar university of Engineering &<br>Technology, Patiala               | Member<br>(Outside Parent<br>University Nominee) | Present    |
| 5.      | Ms. Radhika Aggarwal<br>Assistant Manager<br>Great Destinations Hotels and Resorts,<br>Bengaluru, Karnataka                                   | Member<br>(Industry Expert)                      | Present    |
| 6.      | Dr. Ashima<br>Assistant Professor<br>Department of Mathematics<br>Hansraj College, University of Delhi                                        | Member<br>(Alumni)                               | Present    |
| 7.      | Dr. Monika Rani<br>Assistant Professor<br>PG Department of Mathematics<br>Kanya Maha Vidyalaya, Jalandhar                                     | Member                                           | Present    |
| 8.      | Dr. Natasha Sharma<br>Assistant Professor<br>PG Department of Mathematics<br>Kanya Maha Vidyalaya, Jalandhar                                  | Member                                           | Present    |

**KANYA MAHA VIDYALAYA, JALANDHAR**

**(An Autonomous College)**

**Agenda of the Eleventh Meeting of Board of Studies**

**PG Department of Mathematics**

MATH: 2026: 11: 1: To discuss the Action Taken Report of Tenth Board of Studies meeting held on 29-05-2025

MATH: 2026: 11: 2: To discuss the Programme outcomes, course outcomes, scheme and syllabus of **Master of Science (Mathematics) FYIP - Semester I-II** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

MATH: 2026: 11: 3: To discuss the Programme outcomes, course outcomes, scheme and syllabus of **Master of Science (Mathematics) FYIP - Semester V-VI** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

MATH: 2026: 11: 4: To discuss the Programme outcomes, course outcomes, scheme and syllabus of **Master of Science (Mathematics) FYIP - Semester VII-VIII** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 20% internal assessment** for the session 2026-27.

MATH: 2026: 11: 5: To discuss the Programme outcomes, course outcomes, scheme and syllabus of Programme **Master of Science (Mathematics) - Semester I-IV** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

MATH: 2026: 11: 6: To discuss the course outcomes, scheme and syllabus of **Mathematics in Bachelor of Arts/Bachelor of Science (Honours) Semester V-VI** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

MATH: 2026: 11: 7: To discuss the course outcomes, scheme and syllabus of Course Title **Biostatistics in Master of Science (Zoology) - Semester II** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

MATH: 2026: 11: 8: To discuss the course outcomes, scheme and syllabus of Course Title **Biomathematics and Biostatistics in Bachelor of Science (Honours) Bio-Technology- Semester III** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

MATH: 2026: 11: 9: To discuss the course outcomes, scheme and syllabus of Course Title **Theoretical Biology and Botany Practicals II in Master of Science (Botany) - Semester II** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

MATH: 2026: 11: 10: To discuss the course outcomes, scheme and syllabus of Course Title **Fundamental Mathematics for Computing in Master of Computer Applications - Semester I** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

MATH: 2026: 11: 11: To discuss and approve the list of examiners and evaluators of above stated courses.

MATH: 2026: 11: 12: To discuss research inputs and plans of department for the session 2026-27.

MATH: 2026: 11: 13: To discuss teaching methodologies adopted in department and inputs required to upgrade the same.

## **KANYA MAHA VIDYALAYA, JALANDHAR**

**(An Autonomous College)**

**PG Department of Mathematics**

### **Proceedings of the Eleventh Meeting of Board of Studies held on**

**Date:** 13.07.2026

**Time:** 12:00 pm onwards

**Mode:** Online Meeting via Zoom

The Eleventh meeting of the Board of Studies of P.G. Department of Mathematics started with welcome address by the Chairperson Ms. Anand Prabha. She welcomed the members of Board of Studies and explained that department is working hard to maintain academic and research standards. After brief overview, she took up the agenda items for deliberation one by one with the permission of board members. Following decisions were taken to improve academic excellence.

Item: MATH: 2026: 11: 1: To discuss the Action Taken Report of Tenth Board of Studies meeting held on 29-05-2025

The chairperson sent the proceedings of the previous Board of Studies meeting held on 29-05-2025 through email to all the members and they were approved. The chairperson however again put-up summary of the proceedings for approval of the house and they approved it through zoom meeting **(Details in Annexure A).**

PG Department of Mathematics

Action Taken Report (ATR)

On

Tenth Board of Studies Meeting held on 29-05-2025

| Sr. No.                        | Agenda Item                                                                                                                                                                                                                                                               | Decision taken in Meeting                                                                                                                                                                                                                                                                         | Action Taken                            |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <u>Item: MATH: 2025: 10: 2</u> | To discuss the Programme outcomes, course outcomes, scheme and syllabus of <b>Master of Science (Mathematics) FYIP - Semester I-IV</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) <b>with 30% internal assessment</b> for the session 2025-26.      | The proposed syllabus, programme outcomes and course outcomes of <b>Mathematics in Master of Science (Mathematics) FYIP Semester I-IV</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) for the session 2025-26 was discussed by Board members and they approved the Syllabus. | The approved syllabus has been executed |
| <u>Item: MATH: 2025: 10: 3</u> | To discuss the Programme outcomes, course outcomes, scheme and syllabus of <b>Master of Science (Mathematics) FYIP - Semester V-VI</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) <b>with 20% internal assessment</b> for the session 2025-26.      | The syllabus and course outcomes are approved by the members of BOS.                                                                                                                                                                                                                              | The approved syllabus has been executed |
| <u>Item: MATH: 2025: 10: 4</u> | To discuss the Programme outcomes, course outcomes, scheme and syllabus of Programme <b>Master of Science (Mathematics) - Semester I-IV</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) <b>with 30% internal assessment</b> for the session 2025-26. | The proposed syllabus, programme outcomes and course outcomes of <b>Mathematics in Master of Science (Mathematics) Semester I-IV</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) for the session 2025-26 was discussed by Board members and they approved the Syllabus.      | The approved syllabus has been executed |

|                                          |                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <u>Item: MATH:</u><br><u>2025: 10: 5</u> | To discuss the Programme outcomes, course outcomes, scheme and syllabus of <b>Add on Certificate Course in Vedic Mathematics</b> under Absolute Marks Grading System.                                                                                                                                                        | The content of the syllabus was approved without changes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | The approved syllabus has been executed  |
| <u>Item: MATH:</u><br><u>2025: 10: 6</u> | To discuss the Programme outcomes, course outcomes, scheme and syllabus of <b>Mathematics in Bachelor of Arts/Bachelor of Science (Honours) Semester I-IV</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) <b>with 30% internal assessment</b> for the session 2025-26.                                  | The proposed syllabus, programme outcomes and course outcomes of <b>Mathematics in Bachelor of Arts/Bachelor of Science (Honours) Semester I-IV</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) for the session 2025-26 was discussed by Board members and they approved the Syllabus. The House suggested that the Course Title of theory paper should be changed from Mathematics (Calculus) to Mathematics (Advanced Calculus) of programme <b>Bachelor of Arts/Bachelor of Science (Honours) Semester II</b> . The content of the proposed syllabus was approved. | The approved changes have been executed. |
| <u>Item: MATH:</u><br><u>2025: 10: 7</u> | To discuss the Programme outcomes, course outcomes, scheme and syllabus of <b>Mathematics in Bachelor of Arts/Bachelor of Science (Non-Medical, Computer Science, Economics) Semester V-VI</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) <b>with 20% internal assessment</b> for the session 2025-26. | The content of the syllabus was approved without changes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | The approved syllabus has been executed  |

|                                           |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                        |                                          |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <u>Item: MATH:</u><br><u>2025: 10: 8</u>  | To discuss the Programme outcomes, course outcomes, scheme and syllabus of Course Title <b>Mathematical Physics-I and Mathematical Physics -II in Master of Science (FYIP) - Physics - Semester-I &amp; II respectively</b> , under Credit Based Continuous Evaluation Grading System (CBCEGS) <b>with 30% internal assessment</b> for the session 2025-26. | The proposed syllabus, programme outcomes and course outcomes of <b>Mathematics in Master of Science (Physics)(FYIP) - Semester-I &amp; II</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) for the session 2025-26 was discussed by Board members and they approved the Syllabus. | The approved syllabus has been executed  |
| <u>Item: MATH:</u><br><u>2025: 10: 9</u>  | To discuss the Programme outcomes, course outcomes, scheme and syllabus of Course Title <b>Theoretical Biology and Botany Practicals II in Master of Science (Botany) - Semester II</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) <b>with 30% internal assessment</b> for the session 2025-26.                                       | The House suggested that the Course Title of theory paper should be changed from Theoretical Biology to Mathematics for Biologists. The content of the proposed syllabus was approved.                                                                                                                 | The approved syllabus has been executed  |
| <u>Item: MATH:</u><br><u>2025: 10: 10</u> | To discuss the Programme outcomes, course outcomes, scheme and syllabus of Course Title <b>Mathematics for Chemists in Master of Science (Chemistry) - Semester II</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) <b>with 30% internal assessment</b> for the session 2025-26.                                                        | The House suggested some changes in the content of Course Title <b>Mathematics for Chemists in Master of Science (Chemistry) - Semester II</b> .                                                                                                                                                       | The approved changes have been executed. |
| <u>Item: MATH:</u><br><u>2025: 10: 11</u> | To discuss the Programme outcomes, course outcomes, scheme and syllabus of Course Title <b>Biostatistics in Master of Science (Zoology) - Semester II</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) <b>with</b>                                                                                                                      | The content of the scheme and syllabus was approved without changes.                                                                                                                                                                                                                                   | The approved syllabus has been executed  |

|                                 |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
|                                 | <b>30% internal assessment</b> for the session 2025-26.                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |
| <u>Item: MATH: 2025: 10: 12</u> | To discuss the Programme outcomes, course outcomes, scheme and syllabus of Course Title <b>Biomathematics and Biostatistics in Bachelor of Science (Honours) Bio-Technology- Semester III</b> under Credit Based Continuous Evaluation Grading System (CBCEGS) <b>with 30% internal assessment</b> for the session 2025-26. | The content of the scheme and syllabus was approved without changes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | The approved syllabus has been executed  |
| <u>Item: MATH: 2025: 10: 13</u> | To discuss and approve the list of examiners and evaluators of above stated courses.                                                                                                                                                                                                                                        | The chairperson discussed the examiners and evaluators of above stated courses with the members and they approved it.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The approved changes have been executed. |
| <u>Item: MATH: 2025: 10: 14</u> | To discuss research inputs and plans of department for the session 2025-26.                                                                                                                                                                                                                                                 | The board members appreciated the research work of the department. The plans for the coming academic are as follows:<br>1. Faculty will continue to publish papers in International and National journals of repute.<br>2. Department Faculty is planning to apply for projects for various funding agencies including NBHM, DST.<br>3. Department is planning to organise mathematical talks, seminars and workshop at International and National level in respective semesters.<br>4. Department will continue to motivate students to appear in various competitive examinations and training programs to have exposure in research.<br>5. Faculty is planning to undertake students for research guidance. | The approved changes have been executed. |
| <u>Item: MATH: 2025: 10: 15</u> | To discuss teaching methodologies adopted in department and inputs required to upgrade the                                                                                                                                                                                                                                  | Ms. Anand Prabha apprised the BOS members of teaching practices adopted in the Department. BOS members                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | The approved changes have been executed. |

|  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|--|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | same. | appreciated the innovative teaching methodologies adopted by department like-ICT based teaching as Power point presentations, educational videos, seminars leading to critical and creative thinking. She highlighted the departmental activities like quiz, workshops, and educational trip sand extension lectures for overall development of students. The house appreciated the teaching methodologies and various activities held in department to enhance teaching learning process. |  |
|--|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

MATH: 2026: 11: 2: To discuss the Programme outcomes, course outcomes, scheme and syllabus of **Master of Science (Mathematics) FYIP - Semester I-II** under Credit Based Continuous Evaluation Grading System (CBCEGS) with 30% internal assessment for the session 2026-27.

The proposed syllabus, programme outcomes and course outcomes of **Mathematics in Master of Science (Mathematics) FYIP Semester I-II** under Credit Based Continuous Evaluation Grading System (CBCEGS) for the session 2026-27 was discussed by Board members and they approved the Syllabus. The House suggested that the Course Title: Mechanics-I (Course Code: FMAM- 1395) and Course Title: Dynamics (Course Code: FMAL-1335) of **Master of Science (Mathematics) FYIP - Semester-I** should be merged to Course Title: Statics and Dynamics (Course Code: FMAM-1335). Additionally Course Title: Statistical Analysis Using Spreadsheet (Course Code: FMAL-2330) and Course Title: Statistical Analysis Using Laboratory (Course Code: FMAP-2330) of **Master of Science (Mathematics) FYIP - Semester-II** should be merged to Course Title: Numerics Using SCILAB (Course Code: FMAM-2330).

The course scheme approved for **Master of Science (Mathematics) FYIP Semester I-II** under Credit Based Continuous Evaluation Grading System for the session 2026-27 is as follows (**Detailed syllabus in Annexure B**):

Kanya Maha Vidyalaya, Jalandhar (Autonomous)  
Scheme and Curriculum of Examinations of Five Year Integrated Programme  
(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)  
Master of Science (Mathematics) (FYIP)  
Semester-I  
Session- 2026-27

| Master of Science (Mathematics) (FYIP) Semester-I |             |                                                                                                              |                      |               |               |            |    |    |    |                           |
|---------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------|----------------------|---------------|---------------|------------|----|----|----|---------------------------|
| Course Code                                       | Course type | Course Title                                                                                                 | Hours Per Week L-T-P | Credits L-T-P | Total Credits | Max. Marks |    |    |    | Examination Time in Hours |
|                                                   |             |                                                                                                              |                      |               |               | Total      | TH | P  | CA |                           |
| FMAL-1421/<br>FMAL-1031/<br>FMAL-1431             | C           | <sup>1</sup> Punjabi (Compulsory)/<br><sup>2</sup> Basic Punjabi/<br><sup>3</sup> Punjab History and Culture | 2-0-0                | 2-0-0         | 2             | 50         | 35 | -  | 15 | 3                         |
| FMAL - 1102                                       | AEC         | Communicative English-I                                                                                      | 2-0-0                | 2-0-0         | 2             | 50         | 35 | -  | 15 | 3                         |
| FMAL-1333                                         | DSC         | Calculus                                                                                                     | 4-1-0                | 4-1-0         | 5             | 100        | 70 | -  | 30 | 3                         |
| FMAL - 1334                                       | DSC         | Theory of Equations                                                                                          | 4-1-0                | 4-1-0         | 5             | 100        | 70 | -  | 30 | 3                         |
| FMAM-1135                                         | C           | Programming Language - I                                                                                     | 3-0-2                | 3-0-1         | 4             | 100        | 40 | 30 | 30 | 3+3                       |
| FMAP-1336                                         | DSC         | Calculus Laboratory                                                                                          | 0-0-4                | 0-0-2         | 2             | 50         | -  | 35 | 15 | 3                         |
| FMAL-1330                                         | SEC         | Statistical Analysis Using Spreadsheet                                                                       | 2-0-0                | 2-0-0         | 2             | 50         | 35 | -  | 15 | 3                         |
| FMAP-1330                                         | SEC         | Statistical Analysis Using Laboratory                                                                        | 0-0-8                | 0-0-4         | 4             | 100        | -  | 70 | 30 | 3                         |

|           |      |                                  |       |       |    |    |    |    |    |   |
|-----------|------|----------------------------------|-------|-------|----|----|----|----|----|---|
| USEP-0001 | SEC  | Entrepreneurship Mindset Level-I | 0-0-4 | 0-0-2 | 2  | 50 | -  | 35 | 15 |   |
| VACF-1491 | VAAC | *Foundation Course               | 2-0-0 | 2-0-0 | 2  | 50 | 35 | -  | 15 | 1 |
| Total     |      |                                  |       |       | 30 |    |    |    |    |   |

C-Compulsory

AEC-Ability Enhancement Course

DSC-Discipline Specific Course

SEC-Skill Enhancement Course

VAAC-Value Added Audit Course

Note:

<sup>1</sup>Domicile / Non Domicile of Punjab students who have studied Punjabi till 8<sup>th</sup>/ 10<sup>th</sup> class will study Punjabi (compulsory)

<sup>2,3</sup>The Non-Domicile of Punjab Students who have not studied Punjabi till 8<sup>th</sup>/10<sup>th</sup> class can choose either Basic Punjabi or Punjab History and Culture (PHC)

<sup>2</sup>Domicile of Punjab students who studied out of Punjab and did not study Punjabi till 8<sup>th</sup> / 10<sup>th</sup> class will have to study Basic Punjabi

<sup>2</sup>Domicile of Punjab students who have studied in Kendriya Vidyalaya of Punjab or any other school and due to any reason did not study Punjabi till 8<sup>th</sup>/10<sup>th</sup> class will have to study Basic Punjabi

\* Marks of this paper will not be added in total marks. Grades will be provided.

Kanya Maha Vidyalaya, Jalandhar (Autonomous)  
Scheme and Curriculum of Examinations of Five Year Integrated Programme  
(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)  
Master of Science (Mathematics) (FYIP)  
Semester-II  
Session- 2026-27

| Master of Science (Mathematics) (FYIP) Semester-II |             |                                                                                                             |                      |               |               |            |    |    |    |                           |
|----------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------|----------------------|---------------|---------------|------------|----|----|----|---------------------------|
| Course Code                                        | Course Type | Course Title                                                                                                | Hours Per Week L-T-P | Credits L-T-P | Total Credits | Max. Marks |    |    |    | Examination Time in Hours |
|                                                    |             |                                                                                                             |                      |               |               | Total      | TH | P  | CA |                           |
| FMAL-2421/<br>FMAL-2031/<br>FMAL-2431              | C           | <sup>1</sup> Punjabi (Compulsory)<br><sup>2</sup> Basic Punjabi/<br><sup>3</sup> Punjab History and Culture | 2-0-0                | 2-0-0         | 2             | 50         | 35 | -  | 15 | 3                         |
| FMAL-2102                                          | AEC         | Communicative English-II                                                                                    | 2-0-0                | 2-0-0         | 2             | 50         | 35 | -  | 15 | 3                         |
| FMAL-2333                                          | DSC         | Sequences and Series                                                                                        | 4-1-0                | 4-1-0         | 5             | 100        | 70 | -  | 30 | 3                         |
| FMAL - 2334                                        | DSC         | Algebra                                                                                                     | 4-1-0                | 4-1-0         | 5             | 100        | 70 | -  | 30 | 3                         |
| FMAM-2135                                          | C           | Object Oriented Programming C++                                                                             | 3-0-2                | 3-0-1         | 4             | 100        | 40 | 30 | 30 | 3+3                       |
| FMAP-2336                                          | DSC         | Algebra Laboratory                                                                                          | 0-0-4                | 0-0-2         | 2             | 50         | -  | 35 | 15 | 3                         |
| FMAM-2330                                          | SEC         | Numerics Using SCILAB                                                                                       | 3-0-2                | 3-0-1         | 4             | 100        | 40 | 30 | 30 | 3+3                       |
| USEP-00                                            | SEC         | Entrepreneurship Mindset Level-II                                                                           | 0-0-4                | 0-0-2         | 2             | 50         | -  | 35 | 15 |                           |
| VACD-2161                                          | VAC         | Drug Abuse and Ethical Education                                                                            | 4-0-0                | 4-0-0         | 4             | 100        | 70 | -  | 30 | 3                         |

|       |  |  |    |  |
|-------|--|--|----|--|
| Total |  |  | 30 |  |
|-------|--|--|----|--|

C-Compulsory

AEC-Ability Enhancement Course

DSC-Discipline Specific Course

SEC-Skill Enhancement Course

VAC-Value Added Course

Note:

<sup>1</sup>Domicile / Non Domicile of Punjab students who have studied Punjabi till 8<sup>th</sup>/ 10<sup>th</sup> class will study Punjabi (compulsory)

<sup>2,3</sup>The Non-Domicile of Punjab Students who have not studied Punjabi till 8<sup>th</sup>/10<sup>th</sup> class can choose either Basic Punjabi or Punjab History and Culture (PHC)

<sup>2</sup>Domicile of Punjab students who studied out of Punjab and did not study Punjabi till 8<sup>th</sup> / 10<sup>th</sup> class will have to study Basic Punjabi

<sup>2</sup>Domicile of Punjab students who have studied in Kendriya Vidyalaya of Punjab or any other school and due to any reason did not study Punjabi till 8<sup>th</sup>/10<sup>th</sup> class will have to study Basic Punjabi

MATH: 2026: 11: 3: To discuss the Programme outcomes, course outcomes, scheme and syllabus of **Master of Science (Mathematics) FYIP - Semester V-VI** under Credit Based Continuous Evaluation Grading System (CBCEGS) with 30% internal assessment for the session 2026-27.

The proposed syllabus, programme outcomes and course outcomes of **Master of Science (Mathematics) FYIP - Semester V-VI** under Credit Based Continuous Evaluation Grading System (CBCEGS) for the session 2026-27 was discussed by Board members and they approved the Syllabus.

The course scheme approved for **Master of Science (Mathematics) FYIP - Semester V-VI** under Credit Based Continuous Evaluation Grading System for the session 2026-27 is as follows (**Details in Annexure C**).

Kanya Maha Vidyalaya, Jalandhar (Autonomous)  
Scheme and Curriculum of Examinations of Five Years Integrated Programme  
(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)  
Master of Science (Mathematics) (FYIP)  
Semester-V  
Session- 2026-27

| Master of Science (Mathematics) (FYIP) Semester-V |             |                                      |                      |               |               |            |    |    |    |                           |
|---------------------------------------------------|-------------|--------------------------------------|----------------------|---------------|---------------|------------|----|----|----|---------------------------|
| Course Code                                       | Course Type | Course Title                         | Hours Per Week L-T-P | Credits L-T-P | Total Credits | Max. Marks |    |    |    | Examination Time in Hours |
|                                                   |             |                                      |                      |               |               | Total      | TH | P  | CA |                           |
| FMAL-5331                                         | DSC         | Group Theory -I                      | 4-1-0                | 4-1-0         | 5             | 100        | 70 | -  | 30 | 3                         |
| FMAL-5332                                         | DSC         | PDE's and System of ODE's            | 4-1-0                | 4-1-0         | 5             | 100        | 70 | -  | 30 | 3                         |
| FMAL-5133                                         | C           | Machine Learning                     | 4-0-0                | 4-0-0         | 4             | 100        | 70 | -  | 30 | 3                         |
| FMAM-5334                                         | MDC         | Sawai Jai Singh and his Astronomy    | 3-0-2                | 3-0-1         | 4             | 100        | 40 | 30 | 30 | 3+3                       |
| FMAP-5335                                         | DSC         | PDE's and System of ODE's Laboratory | 0-0-4                | 0-0-2         | 2             | 50         | -  | 35 | 15 | 3                         |
| FMAI-5336                                         | DSC         | Internship                           | 0-0-4                | 0-0-2         | 2             | 50         | -  | 50 | -  |                           |
| FMAM-5330                                         | SEC         | Technical Writing and Latex          | 3-0-2                | 3-0-1         | 4             | 100        | 40 | 30 | 30 | 3+3                       |
| VACJ-5551                                         | VAAC        | * Job Readiness                      | 2-0-0                | 2-0-0         | 2             | 50         | 35 | -  | 15 | 1                         |
| Total                                             |             |                                      |                      |               | 28            |            |    |    |    |                           |

C-Compulsory

VAAC-Value Added Audit Courses

SEC-Skill Enhancement Courses

DSC-Discipline Specific Courses

MDC-Multi Disciplinary Courses

\* Credits/grades points of these courses will not be included in the calculation of SGPA/CGPA of the semesters/programme.

Kanya Maha Vidyalaya, Jalandhar (Autonomous)  
 Scheme and Curriculum of Examinations of Five Years Integrated Programme  
 (Under Credit Based Continuous Evaluation Grading System) (CBCEGS)  
 Master of Science (Mathematics) (FYIP)  
 Semester-VI  
 Session- 2026-27

| Master of Science (Mathematics) (FYIP) Semester-VI |             |                                            |                      |               |               |            |    |    |    |                           |
|----------------------------------------------------|-------------|--------------------------------------------|----------------------|---------------|---------------|------------|----|----|----|---------------------------|
| Course Code                                        | Course Type | Course Title                               | Hours Per Week L-T-P | Credits L-T-P | Total Credits | Max. Marks |    |    |    | Examination Time in Hours |
|                                                    |             |                                            |                      |               |               | Total      | TH | P  | CA |                           |
| FMAL-6331                                          | DSC         | Group Theory-II                            | 4-1-0                | 4-1-0         | 5             | 100        | 70 | -  | 30 | 3                         |
| FMAL-6332                                          | DSC         | Riemann Integration and Series of Function | 4-1-0                | 4-1-0         | 5             | 100        | 70 | -  | 30 | 3                         |
| FMAL-6333                                          | DSC         | Multivariate Calculus                      | 4-1-0                | 4-1-0         | 5             | 100        | 70 | -  | 30 | 3                         |
| FMAL-6134                                          | C           | Data and File Structures                   | 4-0-0                | 4-0-0         | 4             | 100        | 70 | -  | 30 | 3                         |
| FMAP-6335                                          | DSC         | Multivariate Calculus Laboratory           | 0-0-4                | 0-0-2         | 2             | 50         | -  | 35 | 15 | 3                         |
| VACH-6401                                          | VAC         | *Human Rights and Constitutional Duties    | 2-0-0                | 2-0-0         | 2             | 50         | 35 | -  | 15 | 3                         |
| Total                                              |             |                                            |                      |               | 23            |            |    |    |    |                           |

C-Compulsory

VAC-Value Added Courses

DSC-Discipline Specific Courses

\* Credits/grades points of these courses will not be included in the calculation of SGPA/CGPA of the semesters/programme.

MATH: 2026: 11: 4: To discuss the Programme outcomes, course outcomes, scheme and syllabus of **Master of Science (Mathematics) FYIP - Semester VII-VIII** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 20% internal assessment** for the session 2026-27.

The syllabus and course outcomes are approved by the members of BOS. The course scheme approved for **Master of Science (Mathematics) FYIP Semester VII-VIII** under Credit Based Continuous Evaluation Grading System for the session 2026-27 is as follows (**Details in Annexure D**).

Kanya Maha Vidyalaya, Jalandhar (Autonomous)  
Scheme and Curriculum of Examinations of Five Years Integrated Programme  
(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)  
Master of Science (Mathematics) (FYIP)  
Semester-VII  
Session- 2026-27

| Master of Science (Mathematics) (FYIP) Semester-VII |             |                             |                      |               |               |            |    |    |    |                           |
|-----------------------------------------------------|-------------|-----------------------------|----------------------|---------------|---------------|------------|----|----|----|---------------------------|
| Course Code                                         | Course Type | Course Title                | Hours Per Week L-T-P | Credits L-T-P | Total Credits | Max. Marks |    |    |    | Examination Time in Hours |
|                                                     |             |                             |                      |               |               | Total      | TH | P  | CA |                           |
| FMAL-7331                                           | DSC         | Algebra-I                   | 4-1-0                | 4-1-0         | 5             | 100        | 80 | -  | 20 | 3                         |
| FMAL-7332                                           | DSC         | Mathematical Programming-I  | 4-1-0                | 4-1-0         | 5             | 100        | 80 | -  | 20 | 3                         |
| FMAL-7333                                           | DSC         | Real Analysis               | 4-1-0                | 4-1-0         | 5             | 100        | 80 | -  | 20 | 3                         |
| FMAL-7134                                           | C           | Machine Learning            | 4-0-0                | 4-0-0         | 4             | 100        | 80 | -  | 20 | 3                         |
| FMAM-7335                                           | DSC         | Technical Writing and Latex | 3-0-2                | 3-0-1         | 4             | 100        | 50 | 30 | 20 | 3+3                       |
| Total                                               |             |                             |                      |               | 23            |            |    |    |    |                           |

C-Compulsory

DSC-Discipline Specific Courses

Kanya Maha Vidyalaya, Jalandhar (Autonomous)  
Scheme and Curriculum of Examinations of Five Years Integrated Programme  
(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)  
Master of Science (Mathematics) (FYIP)  
Semester-VIII  
Session- 2026-27

| Master of Science (Mathematics) (FYIP) Semester-VIII |             |                                                  |                      |               |               |            |    |    |    |                           |
|------------------------------------------------------|-------------|--------------------------------------------------|----------------------|---------------|---------------|------------|----|----|----|---------------------------|
| Course Code                                          | Course Type | Course Title                                     | Hours Per Week L-T-P | Credits L-T-P | Total Credits | Max. Marks |    |    |    | Examination Time in Hours |
|                                                      |             |                                                  |                      |               |               | Total      | TH | P  | CA |                           |
| FMAL-8331                                            | DSC         | Algebra-II                                       | 4-1-0                | 4-1-0         | 5             | 100        | 80 | -  | 20 | 3                         |
| FMAL-8332                                            | DSC         | Mathematical Programming-II                      | 4-1-0                | 4-1-0         | 5             | 100        | 80 | -  | 20 | 3                         |
| FMAL-8333                                            | DSC         | History of Mathematics in India                  | 4-0-0                | 4-0-0         | 4             | 100        | 80 | -  | 20 | 3                         |
| FMAL-8134                                            | C           | Data and File Structures                         | 4-0-0                | 4-0-0         | 4             | 100        | 80 | -  | 20 | 3                         |
| FMAD-8335                                            | C           | Project                                          | 0-0-12               | 0-0-6         | 6             | 100        | -  | 80 | 20 | 3                         |
| FMAL-8406                                            | C           | Universal Human Values-II: Understanding Harmony | 3-0-0                | 3-0-0         | 3             | 100        | -  | 80 | 20 | 3                         |
| Total                                                |             |                                                  |                      |               | 27            |            |    |    |    |                           |

C-Compulsory

DSC-Discipline Specific Courses

MATH: 2026: 11: 5: To discuss the Programme outcomes, course outcomes, scheme and syllabus of Programme **Master of Science (Mathematics) - Semester I-IV** under Credit Based Continuous Evaluation Grading System (CBCEGS) with **30% internal assessment** for the session 2026-27.

The proposed syllabus, programme outcomes and course outcomes of **Mathematics in Master of Science (Mathematics) Semester I-IV** under Credit Based Continuous Evaluation Grading System (CBCEGS) for the session 2026-27 was discussed by Board members and they approved the Syllabus.

The House suggested that the Credits of all the Courses in programme **Master of Science (Mathematics) Semester I-II** should be changed from 4 to 5. The content of the proposed syllabus was approved.

The course scheme approved for **Master of Science (Mathematics) Semester I-IV** under Credit Based Continuous Evaluation Grading System for the session 2026-27 is as follows (**Details in Annexure E**).

KANYA MAHA VIDYALAYA, JALANDHAR (AUTONOMOUS)  
SCHEME AND CURRICULUM OF EXAMINATION OF TWO YEAR DEGREE PROGRAMME  
(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)  
Master of Science (Mathematics)  
Semester-I  
(Session 2026-27)

| Master of Science (Mathematics) Semester-I |                  |             |                      |               |               |       |    |   |    |                             |
|--------------------------------------------|------------------|-------------|----------------------|---------------|---------------|-------|----|---|----|-----------------------------|
| Course Code                                | Course Title     | Course Type | Hours Per Week L-T-P | Credits L-T-P | Total Credits | Marks |    |   |    | Examination Time (in Hours) |
|                                            |                  |             |                      |               |               | Total | Th | P | CA |                             |
| MMSL-1331                                  | Real Analysis    | C           | 4-1-0                | 4-1-0         | 5             | 100   | 70 | - | 30 | 3                           |
| MMSL-1332                                  | Complex Analysis | C           | 4-1-0                | 4-1-0         | 5             | 100   | 70 | - | 30 | 3                           |
| MMSL-1333                                  | Algebra-I        | C           | 4-1-0                | 4-1-0         | 5             | 100   | 70 | - | 30 | 3                           |
| MMSL-1334                                  | Mechanics-I      | C           | 4-1-0                | 4-1-0         | 5             | 100   | 70 | - | 30 | 3                           |

|                                                                                                                            |                            |      |       |       |                                                                                                                                                                                                                                    |     |    |   |    |   |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------|------|-------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|---|----|---|
| MMSL-1335                                                                                                                  | Mathematical Programming-I | C    | 4-1-0 | 4-1-0 | 5                                                                                                                                                                                                                                  | 100 | 70 | - | 30 | 3 |
| Student can opt any one of the following interdisciplinary courses.<br>ID Course opted in Sem-I cannot be opted in Sem-III |                            | IDE* | 4-0-0 | 4-0-0 | 4                                                                                                                                                                                                                                  | 100 | 70 | - | 30 | 3 |
| TOTAL                                                                                                                      |                            |      |       |       | 25                                                                                                                                                                                                                                 |     |    |   |    |   |
| IDEC-1101<br>IDEM-1362<br>IDEH-1313<br>IDEI-1124<br>IDEW-1275                                                              |                            |      |       |       | Communication Skills<br>Basics of Music (Vocal)<br>Human Rights and Constitutional Duties<br>Basics of Computer Applications<br>Indian Heritage: Contribution to the World<br>(Credits of these courses will not be added to SGPA) |     |    |   |    |   |

C-Compulsory Course

\*Optional (Credits of ID courses will not be added to SGPA)

### KANYA MAHA VIDYALAYA, JALANDHAR (AUTONOMOUS)

#### SCHEME AND CURRICULUM OF EXAMINATION OF TWO YEAR DEGREE PROGRAMME

(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

Master of Science (Mathematics)

(Session 2026-27)

| Master of Science (Mathematics) Semester-II |                                  |             |                      |               |               |       |    |   |    |                             |
|---------------------------------------------|----------------------------------|-------------|----------------------|---------------|---------------|-------|----|---|----|-----------------------------|
| Course Code                                 | Course Title                     | Course Type | Hours Per Week L-T-P | Credits L-T-P | Total Credits | Marks |    |   |    | Examination Time (in Hours) |
|                                             |                                  |             |                      |               |               | Total | TH | P | CA |                             |
| MMSL-2331                                   | Differential Equations           | C           | 4-1-0                | 4-1-0         | 5             | 100   | 70 | - | 30 | 3                           |
| MMSL-2332                                   | Integral Transforms and Integral | C           | 4-1-0                | 4-1-0         | 5             | 100   | 70 | - | 30 | 3                           |

|           |                               |   |       |       |    |     |    |   |    |   |
|-----------|-------------------------------|---|-------|-------|----|-----|----|---|----|---|
|           | Equations                     |   |       |       |    |     |    |   |    |   |
| MMSL-2333 | Algebra-II                    | C | 4-1-0 | 4-1-0 | 5  | 100 | 70 | - | 30 | 3 |
| MMSL-2334 | Mechanics-II                  | C | 4-1-0 | 4-1-0 | 5  | 100 | 70 | - | 30 | 3 |
| MMSL-2335 | Mathematical Programming - II | C | 4-1-0 | 4-1-0 | 5  | 100 | 70 | - | 30 | 3 |
| TOTAL     |                               |   |       |       | 25 |     |    |   |    |   |

C-Compulsory Course

KANYA MAHA VIDYALAYA, JALANDHAR (AUTONOMOUS)  
 SCHEME AND CURRICULUM OF EXAMINATION OF TWO YEAR DEGREE PROGRAMME  
 (Under Credit Based Continuous Evaluation Grading System) (CBCEGS)  
 Master of Science (Mathematics)  
 Semester-III  
 (Session 2026-27)

| Master of Science (Mathematics) Semester-III                                                                            |                                |             |                      |               |                      |       |    |    |    |                             |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------|----------------------|---------------|----------------------|-------|----|----|----|-----------------------------|
| Course Code                                                                                                             | Course Title                   | Course Type | Hours Per Week L-T-P | Credits L-T-P | Total Credits        | Marks |    |    |    | Examination Time (in Hours) |
|                                                                                                                         |                                |             |                      |               |                      | Total | TH | P  | CA |                             |
| MMSL-3331                                                                                                               | Linear Algebra                 | C           | 4-0-0                | 4-0-0         | 4                    | 100   | 70 | -  | 30 | 3                           |
| MMSL-3332                                                                                                               | Measure Theory                 | C           | 4-0-0                | 4-0-0         | 4                    | 100   | 70 | -  | 30 | 3                           |
| MMSL-3333                                                                                                               | Statistics-I                   | C           | 4-0-0                | 4-0-0         | 4                    | 100   | 70 | -  | 30 | 3                           |
| MMSL-3334                                                                                                               | Partial Differential Equations | C           | 4-0-0                | 4-0-0         | 4                    | 100   | 70 | -  | 30 | 3                           |
| MMSD-3335                                                                                                               | Project                        | C           | 0-0-8                | 0-0-4         | 4                    | 100   | -  | 70 | 30 | 3                           |
| Student can opt any one of the following interdisciplinary courses. ID Course opted in Sem-I cannot be opted in Sem-III |                                | IDE*        | 4-0-0                | 4-0-0         | 4                    | 100   | 70 | -  | 30 | 3                           |
| TOTAL                                                                                                                   |                                |             |                      |               | 20                   |       |    |    |    |                             |
| IDEC-3101                                                                                                               |                                |             |                      |               | Communication Skills |       |    |    |    |                             |

|                                                  |                                                                                                                                                                                                                     |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IDEM-3362<br>IDEH-3313<br>IDEI-3124<br>IDEW-3275 | Basics of Music (Vocal)<br>Human Rights and Constitutional<br>Duties<br>Basics of Computer Applications<br>Indian Heritage: Contribution to the<br>World<br>(Credits of these courses will not be<br>added to SGPA) |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

C-Compulsory Course

\*Optional (Credits of ID courses will not be added to SGPA)

KANYA MAHA VIDYALAYA, JALANDHAR (AUTONOMOUS)  
 SCHEME AND CURRICULUM OF EXAMINATION OF TWO YEAR DEGREE PROGRAMME  
 (Under Credit Based Continuous Evaluation Grading System) (CBCEGS)  
 Master of Science (Mathematics)  
 Semester-IV  
 (Session 2026-27)

| Master of Science (Mathematics) Semester-IV |                                 |             |                      |               |               |       |    |   |    |                             |
|---------------------------------------------|---------------------------------|-------------|----------------------|---------------|---------------|-------|----|---|----|-----------------------------|
| Course Code                                 | Course Title                    | Course Type | Hours Per Week L-T-P | Credits L-T-P | Total Credits | Marks |    |   |    | Examination Time (in Hours) |
|                                             |                                 |             |                      |               |               | Total | TH | P | CA |                             |
| MMSL-4331                                   | Functional Analysis             | C           | 4-0-0                | 4-0-0         | 4             | 100   | 70 | - | 30 | 3                           |
| MMSL-4332                                   | Topology                        | C           | 4-0-0                | 4-0-0         | 4             | 100   | 70 | - | 30 | 3                           |
| MMSL-4333                                   | Statistics-II                   | C           | 4-0-0                | 4-0-0         | 4             | 100   | 70 | - | 30 | 3                           |
| MMSL-4334                                   | Number Theory                   | C           | 4-0-0                | 4-0-0         | 4             | 100   | 70 | - | 30 | 3                           |
| MMSL-4335                                   | History of Mathematics in India | C           | 4-0-0                | 4-0-0         | 4             | 100   | 70 | - | 30 | 3                           |
| TOTAL                                       |                                 |             |                      |               | 20            |       |    |   |    |                             |

C-Compulsory Course

MATH: 2026: 11: 6: To discuss the course outcomes, scheme and syllabus of **Mathematics in Bachelor of Arts/Bachelor of Science (Honours) Semester V-VI** under Credit Based Continuous Evaluation Grading System (CBCEGS) with **30% internal assessment** for the session 2026-27.

The proposed syllabus, programme outcomes and course outcomes of **Mathematics in Bachelor of Arts/Bachelor of Science (Honours) Semester V-VI** under Credit Based Continuous Evaluation Grading System (CBCEGS) for the session 2026-27 was discussed by Board members and they approved the Syllabus.

The course scheme approved for **Mathematics in Bachelor of Arts/Bachelor of Science (Honours) Semester V-VI** under Credit Based Continuous Evaluation Grading System for the session 2026-27 is as follows (**Details in Annexure F**).

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of Four Year Undergraduate Degree Programme

(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

Bachelor of Arts/ Bachelor of Science (Honours)  
Semester-V

Session: 2026-27

| Bachelor of Arts/ Bachelor of Science (Honours)<br>Semester-V |                                                                  |                                       |                |                               |                  |                  |       |      |    |    |                                   |
|---------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------|----------------|-------------------------------|------------------|------------------|-------|------|----|----|-----------------------------------|
| Programme<br>Name                                             | Course<br>Code                                                   | Course Title                          | Course<br>Type | Hours<br>per<br>week<br>L-T-P | Credits<br>L-T-P | Total<br>Credits | Marks |      |    |    | Examination<br>Time<br>(in Hours) |
|                                                               |                                                                  |                                       |                |                               |                  |                  | Total | Ext. |    | CA |                                   |
|                                                               |                                                                  |                                       |                |                               |                  |                  |       | TH   | P  |    |                                   |
| Bachelor of<br>Arts/ Bachelor<br>of Science<br>(Honours)      | BARL-<br>5333<br>BECL-<br>5333<br>BSNL-<br>5333<br>BCSL-<br>5333 | Mathematics (Statics and<br>Dynamics) | DSC            | 4-0-0                         | 4-0-0            | 4                | 100   | 70   | -  | 30 | 3                                 |
| Bachelor of<br>Arts/ Bachelor<br>of Science<br>(Honours)      | BARP-<br>5333<br>BECp-<br>5333<br>BSNP-<br>5333<br>BCSP-<br>5333 | Statics and Dynamics<br>Laboratory    |                | 0-0-2                         | 0-0-1            | 1                | 50    | -    | 35 | 15 | 3                                 |

DSC- Discipline Specific Course

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of Four Year Undergraduate Degree Programme

(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

Bachelor of Arts/ Bachelor of Science (Honours)

Semester-VI

Session: 2026-27

| Bachelor of Arts/ Bachelor of Science (Honours)<br>Semester-VI |             |                                        |             |                |               |               |       |      |    |    |                                |
|----------------------------------------------------------------|-------------|----------------------------------------|-------------|----------------|---------------|---------------|-------|------|----|----|--------------------------------|
| Programme Name                                                 | Course Code | Course Title                           | Course Type | Hours per week | Credits L-T-P | Total Credits | Marks |      |    |    | Examination Time<br>(in Hours) |
|                                                                |             |                                        |             | L-T-P          |               |               | Total | Ext. |    | CA |                                |
|                                                                |             |                                        |             |                |               |               |       | TH   | P  |    |                                |
| Bachelor of Arts/<br>Bachelor of Science<br>(Honours)          | BARL-6333   | Mathematics<br>(Multivariate Calculus) | DSC         | 4-0-0          | 4-0-0         | 4             | 100   | 70   | -  | 30 | 3                              |
|                                                                | BECL-6333   |                                        |             |                |               |               |       |      |    |    |                                |
|                                                                | BSNL-6333   |                                        |             |                |               |               |       |      |    |    |                                |
|                                                                | BCSL-6333   |                                        |             |                |               |               |       |      |    |    |                                |
| Bachelor of Arts/<br>Bachelor of Science<br>(Honours)          | BARP-6333   | Multivariate Calculus Laboratory       |             | 0-0-2          | 0-0-1         | 1             | 50    | -    | 35 | 15 | 3                              |
|                                                                | BECP-6333   |                                        |             |                |               |               |       |      |    |    |                                |
|                                                                | BSNP-6333   |                                        |             |                |               |               |       |      |    |    |                                |
|                                                                | BCSP-6333   |                                        |             |                |               |               |       |      |    |    |                                |

DSC- Discipline Specific Course

MATH: 2026: 11: 7: To discuss the course outcomes, scheme and syllabus of Course Title **Biostatistics in Master of Science (Zoology) - Semester II** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

The House suggested some changes in the content of Course Title **Biostatistics in Master of Science (Zoology) - Semester II**. The course scheme approved for under Credit Based Continuous Evaluation Grading System for the session 2026-27 is as follows (**Details in Annexure G**).

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of Two Year Degree Programme

(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

Master of Science (Zoology)  
Session: 2026-27

| Semester-II |               |             |                      |               |               |       |     |   |    |                             |
|-------------|---------------|-------------|----------------------|---------------|---------------|-------|-----|---|----|-----------------------------|
| Course Code | Course Title  | Course Type | Hours Per week L-T-P | Credits L-T-P | Total Credits | Marks |     |   |    | Examination time (in Hours) |
|             |               |             |                      |               |               | Total | Th. | P | CA |                             |
| MZOL-2334   | Biostatistics | C           | 4-0-0                | 4-0-0         | 4             | 100   | 70  | - | 30 | 3                           |

C-Compulsory

MATH: 2026: 11: 8: To discuss the course outcomes, scheme and syllabus of Course Title **Biomathematics and Biostatistics in Bachelor of Science (Honours) Bio-Technology- Semester III** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

The House suggested that the Credits of programme **Bachelor of Science (Honours) Bio-Technology- Semester III** should be changed from 5 to 4. The House also suggested some changes in the content of Course Title **Biomathematics and Biostatistics in Bachelor of Science (Honours) Bio-Technology- Semester III**.

The course scheme approved for under Credit Based Continuous Evaluation Grading System for the session 2026-27 is as follows (**Details in Annexure H**).

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of Four Year Degree Programme

(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

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

Session: 2026-27

| Bachelor of Science (Honours) (Bio-Technology) Semester-III |                                  |             |                      |               |               |       |      |    |    |                             |
|-------------------------------------------------------------|----------------------------------|-------------|----------------------|---------------|---------------|-------|------|----|----|-----------------------------|
| Course Code                                                 | Course Title                     | Course Type | Hours per week L-T-P | Credits L-T-P | Total Credits | Marks |      |    |    | Examination Time (in Hours) |
|                                                             |                                  |             |                      |               |               | Total | Ext. |    | CA |                             |
|                                                             |                                  |             |                      |               |               |       | Th   | P  |    |                             |
| BBTM-3332                                                   | Biomathematics and Biostatistics | DSC         | 3-0-2                | 3-0-1         | 4             | 100   | 50   | 20 | 30 | 3+3                         |

DSC-Discipline Specific Course

MATH: 2026: 11: 9: To discuss the course outcomes, scheme and syllabus of Course Title **Theoretical Biology and Botany Practicals II in Master of Science (Botany) - Semester II** under Credit Based Continuous Evaluation Grading System (CBCEGS) with **30% internal assessment** for the session 2026-27.

The House suggested some changes in the content of Course Title **Theoretical Biology in Master of Science (Botany) - Semester II**. The House also suggested that the Course Title of theory paper should be changed from Theoretical Biology (Course Code: MBTL-2336) to Mathematical Biology (Course Code: MBTL-2336) and Course Title of Botany Practicals II (Course Code: MBTP-2078) to Botany Practicals IV (Course Code: MBTP-2078).

The course scheme approved for under Credit Based Continuous Evaluation Grading System for the session 2026-27 is as follows (**Details in Annexure I**).

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of Two Year Degree Programme

(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

Master of Science (Botany)  
Session: 2026-27

| Master of Science (Botany) Semester-II |                      |             |                         |                  |               |       |     |    |    |                                |
|----------------------------------------|----------------------|-------------|-------------------------|------------------|---------------|-------|-----|----|----|--------------------------------|
| Course Code                            | Course Title         | Course Type | Hours Per week<br>L-T-P | Credits<br>L-T-P | Total Credits | Marks |     |    |    | Examination time<br>(in Hours) |
|                                        |                      |             |                         |                  |               | Total | Th. | P  | CA |                                |
| MBTL-2336                              | Mathematical Biology | C           | 3                       | 3-0-0            | 3             | 100   | 70  | -  | 30 | 3                              |
| MBTP-2078                              | Botany Practicals IV | C           | 6                       | 0-0-3            | 3             | 100   | -   | 70 | 30 | 6                              |

C- Compulsory

MATH: 2026: 11: 10: To discuss the course outcomes, scheme and syllabus of Course Title **Fundamental Mathematics for Computing in Master of Computer Applications - Semester I** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27.

The syllabus and course outcomes are approved by the members of BOS. The course scheme approved for Course Title **Fundamental Mathematics for Computing in Master of Computer Applications - Semester I** under Credit Based Continuous Evaluation Grading System (CBCEGS) **with 30% internal assessment** for the session 2026-27 is as follows (**Details in Annexure J**).

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of Two Year Degree Programme

(Under Credit Based Continuous Evaluation Grading System) (CBCEGS)

MASTER OF COMPUTER APPLICATIONS

Two Year Degree Programme

Semester-I

Session: 2026-27

| MASTER OF COMPUTER APPLICATIONS |                                       |             |                      |               |               |       |      |    |    |                             |
|---------------------------------|---------------------------------------|-------------|----------------------|---------------|---------------|-------|------|----|----|-----------------------------|
| Semester-I                      |                                       |             |                      |               |               |       |      |    |    |                             |
| Course Code                     | Course Title                          | Course Type | Hours per week L-T-P | Credits L-T-P | Total Credits | Marks |      |    |    | Examination Time (in Hours) |
|                                 |                                       |             |                      |               |               | Total | Ext. |    | CA |                             |
|                                 |                                       |             |                      |               |               |       | Th   | P  |    |                             |
| MCAL-1131                       | Fundamental Mathematics for Computing | B           | 2-0-0                | 2-0-0         | 2             | 50    | 35   | -- | 15 | 3                           |

MATH: 2026: 11: 11: To discuss and approve the list of examiners and evaluators of above stated courses.

The chairperson discussed the examiners and evaluators of above stated courses with the members and they approved it.

MATH: 2026: 11: 12: To discuss research inputs and plans of department for the session 2026-27.

The board members appreciated the research work of the department. The plans for the coming academic are as follows:

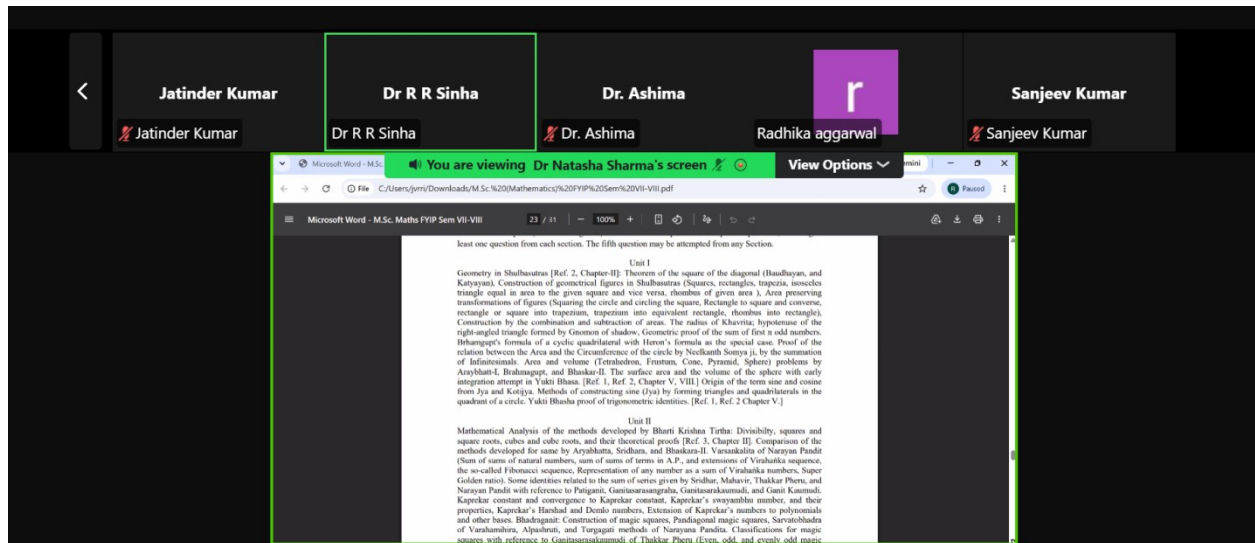
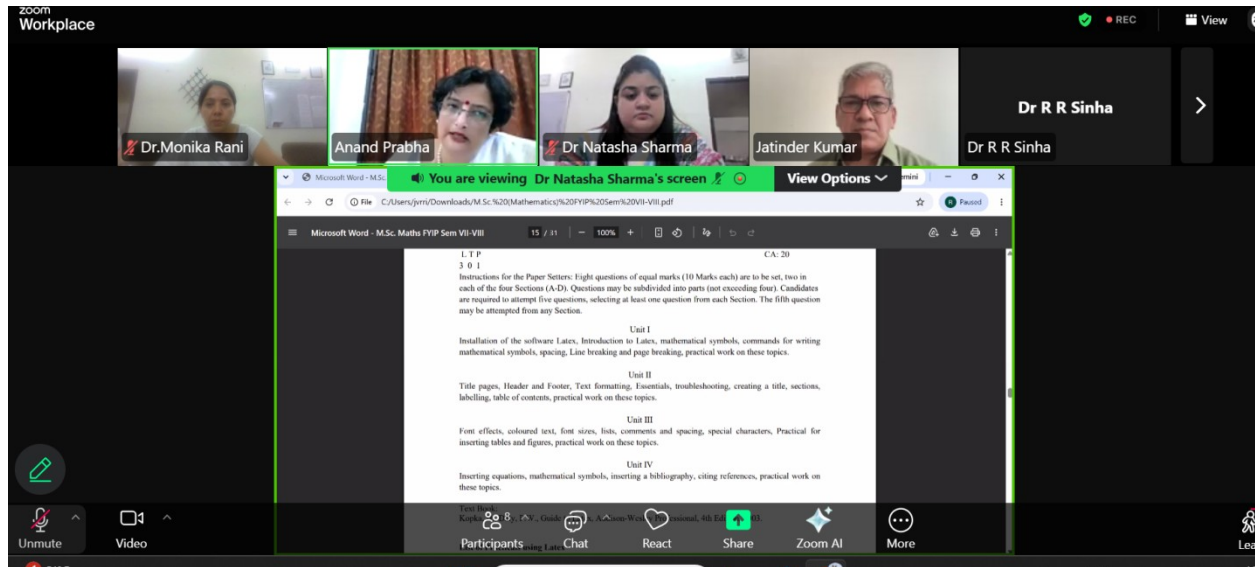
1. The faculty will continue to publish research papers in reputed National and International journals.
2. The Department plans to submit research project proposals to various funding agencies, including NBHM and DST.
3. The Department intends to organize National and International mathematical talks, seminars, and workshops during the respective semesters.
4. The Department will continue to encourage students to participate in competitive examinations, National and International conferences, and training programmes to enhance their research exposure and academic development.
5. The faculty plans to guide and supervise a greater number of students in research activities.

MATH: 2026: 11: 13: To discuss teaching methodologies adopted in department and inputs required to upgrade the same.

Ms. Anand Prabha apprised the BOS members of the teaching practices adopted by the Department. The members appreciated the innovative teaching methodologies implemented by the Department, including ICT-enabled teaching through PowerPoint presentations, educational videos, seminars, and participation in National and International Conferences, which promote critical and creative thinking among students. She also highlighted various departmental activities such as quizzes, workshops, educational trips, and extension lectures organized for the holistic development of students.

The house appreciated the Department's innovative teaching methodologies and the wide range of academic and co-curricular activities undertaken to enhance the overall teaching-learning process.

# Screenshots



Zoom Workplace

Word - M.Sc. Maths x Microsoft Word - M.Sc. Maths x + Ask Gemini - x

C:/Users/jyrti/Downl... You are viewing Dr Natasha Sharma's screen View Options

Microsoft Word - M.Sc. Maths FYIP Sem VII-VIII 24 / 31 100% +

Pulverisation (Kuttak) method. Solution of Brahmagupta-Bhaskara equation (The so-called Pell's equation) of the type  $Nx^2 \pm y^2 = 2$ . Bhavana lenmas of Brahmagupt. Chakraval method of Bhaskar-II. Continued Fractions. [Ref. 3, Chapter-III], Single Indeterminate equations of higher degrees.

Unit IV

Madhav's infinite series for inverse tangent and  $\pi/4$  (The so called Gregory-Leibnitz series). Madhav's infinite series for sine and cosine. Proof by Neelkanthi Somyaji in Yuktibhāṣya and early attempts of integral Calculus with reference to the Kerala School of Mathematics. Rapidly converging series, Madhav's formulae for remainder terms.

Text Books:

1. Datta, B., & Singh, A. N. History of Hindu Mathematics: A Source Book, Vol-I, II, Gyan Prakashan, 2021. (First Published 1938, Lahore).
2. A. Saraswati, T. A. Geometry in Ancient and Medieval India: Motilal Banarsidass Publishers Private Limited, 2017. (First Edition 1979).
3. Bhanu Murthy, T. S. A modern Introduction to Ancient Indian Mathematics, New Age International Publishers, 2009 (First Edition 1992).
4. Parameshwaran, S. The Golden Age of Indian Mathematics, Swadeshi Science Movement, Kerala, 1998.
5. SaKHYa. Ganitasarakaumudi The Moonlight of the Essence of Mathematics by Thakkura Pheru, MANOHOR, 2009.

Reference Books:

1. Hayashi, T. Indian Mathematics.
2. Plofker, K. Mathematics in India.
3. Joseph, G. G. The Crest of the Peacock: Non-European Roots of Mathematics.
4. Sarma, K. V. & Ramasubramanian, K. Ganita-Yukti-Bhasha of Jyesthadeva.
5. Introduction to Indian Knowledge system, Concept and Application.
6. Kamble, B. The Impersishable seed, Garuda Prakashan, 1971. (First Edition 1971).
7. Clark, W. E. The Aryabhata of Aryabhata, The Ancient Indian Knowledge on Mathematics and Astronomy.

Anand Prabha

Unmute Video Participants Chat React Share Zoom AI More Leave

Zoom Workplace

REC View 20

Anand Prabha Dr.Monika Rani Dr Natasha Sharma Jatinder Kumar

Dr R R Sinha Dr. Ashima Radhika aggarwal Sanjeev Kumar

Dr R R Sinha Dr. Ashima Sanjeev Kumar

Unmute Video Participants Chat React Share Zoom AI More Leave



### Imparting Indian Knowledge System through Vedic Mathematics / Anticent Indian Mathematics



**SEMINAR**

Success Stories and Start-ups of Entrepreneurs of Vedic Mathematics  
By Mrs. Anand Prabha



**WORKSHOP**

Workshop on 'INDIAN MATHEMATICAL KNOWLEDGE SYSTEM'- Application of Vedic Mathematics Sutras by Mrs. Anand Prabha

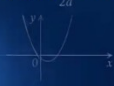


Anand Prabha

**Participants (7)**

- monika (Me)
- Anand Prabha (Host)
- Dr Natasha Sharma
- Dr R R Sinha
- Dr. Ashima
- jatinder Kumar
- Radhika aggarwal

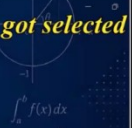
*Only Student from KMV Jalandhar, Punjab Region got selected to present*



$$y = ax^2 + bx + c$$

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\sum_{i=1}^n a_i(x_i + 1)$$



$$\int_a^b f(x) dx$$

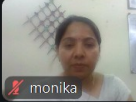
**Himani**  
M.Sc. Mathematics  
Research



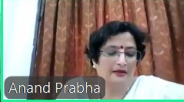


Anand Prabha





monika



Anand Prabha



Dr R R Sinha



jatinder Kumar



Dr Natasha Sharma

Dr. Ashima

Dr. Ashima



Anand Prabha

insightful suggestions, constructive observations, and expert guidance have greatly enriched our discussions and will certainly help us further strengthen our academic programs And curriculum And curriculum in a coordinates with the evolving needs of higher education and the vision of