

## **Annexure G**

### **Kanya Maha Vidyalaya Jalandhar (Autonomous)**

Course Outcomes

Session 2023-24

Bachelor of Science (Medical)

#### **Score attainment of Course Outcome across Bachelor of Science (Medical) Semester- I**

| <b>Course Title</b>                         | <b>Course Code</b> | <b>CO1</b> | <b>CO2</b> | <b>CO3</b> | <b>CO4</b> |
|---------------------------------------------|--------------------|------------|------------|------------|------------|
| Punjabi (Compulsory)                        | BSML-1421          | 3.5        | 3          | 4          | 1          |
| Basic Punjabi                               | BSML-1031          | 4          | 2.5        | 3          | 4          |
| Punjab History and Culture                  | BSML-1431          | 4          | 4          | 4          | 4          |
| English (Compulsory)                        | BSML-1212          | 3          | 2          | 2          | 2          |
| Zoology (Cell Biology)                      | BSMM 1483 (I)      | 3          | 3          | 3          | 2.5        |
| Zoology (Biodiversity- I)                   | BSMM 1483 (II)     | 2.5        | 3          | 2          | 2          |
| Botany (Diversity of Microbes)              | BSMM-1075(I)       | 3.5        | 3          | 2.5        | 2          |
| Botany (Diversity of Cryptogams)            | BSMM 1075 (II)     | 3          | 1.5        | 3          | 2.5        |
| Chemistry (Inorganic Chemistry)             | BSMM- 1084 (I)     | 3          | 3          | 3.5        | 0          |
| Chemistry (Organic Chemistry)               | BSMM- 1084 (II)    | 3          | 4          | 1.5        | 3.5        |
| Microbiology (Fundamentals of Microbiology) | BSMM-1343          | 3          | 2          | 1          | 2.5        |
| Food Science (Food Chemistry And Nutrition) | BSMM-1255          | 3          | 3.5        | 2          | 1.5        |

#### **Student Percentage attaining CO between different range levels depending on weightage for Bachelor of Science (Medical) Semester- I**

| <b>Number of students obtaining marks for each CO between</b> | <b>Percentage</b> | <b>Level</b> |
|---------------------------------------------------------------|-------------------|--------------|
| 75% to 100%                                                   | 0                 | Highest      |
| 60% to 75%                                                    | 1                 | High         |
| 50% to 60%                                                    | 3                 | Medium       |
| 40% to 50%                                                    | 3                 | Lower        |
| below 40%                                                     | 6                 | Low          |

### Score attainment of Course Outcome across Bachelor of Science (Medical) Semester- II

| Course Title                                     | Course Code    | CO1 | CO2 | CO3 | CO4 |
|--------------------------------------------------|----------------|-----|-----|-----|-----|
| Punjabi Compulsory                               | BSML-2421      | 3   | 0   | 3.5 | 3.5 |
| Basic Punjabi                                    | BSML-2031      | 3.5 | 3   | 3.5 | 3   |
| Punjab History and Culture                       | BSML-2431      | 0   | 4   | 4   | 0   |
| English (Compulsory)                             | BSML-2212      | 3.5 | 3.5 | 2.5 | 3   |
| Zoology (Ecology I)                              | BSMM 2483 (I)  | 4   | 2   | 2.5 | 2.5 |
| Zoology (Biodiversity-II)                        | BSMM 2483 (II) | 2.5 | 2   | 2   | 4   |
| Botany (Cell Biology)                            | BSMM 2075 (I)  | 3.5 | 3   | 4   | 2   |
| Botany (Genetics)                                | BSMM 2075 (II) | 2.5 | 3   | 2   | 2.5 |
| Chemistry (Inorganic Chemistry)                  | BSMM-2084(I)   | 3   | 3.5 | 3.5 | 0   |
| Chemistry (Physical Chemistry)                   | BSMM-2084(II)  | 3   | 4   | 1.5 | 3.5 |
| Microbiology (Basic Food Microbiology)           | BSMM- 2343     | 3.5 | 4   | 3.5 | 2.5 |
| Food Science (Food Plant Hygiene and Sanitation) | BSMM- 2255     | 3   | 4   | 4   | 3   |

Student Percentage attaining CO between different range levels depending on weightage  
Bachelor of Science (Medical) Semester- II

| Number of students obtaining marks for each CO between | Percentage | Level   |
|--------------------------------------------------------|------------|---------|
| 75% to 100%                                            | 0          | Highest |
| 60% to 75%                                             | 1          | High    |
| 50% to 60%                                             | 3          | Medium  |
| 40% to 50%                                             | 2          | Lower   |
| below 40%                                              | 6          | Low     |

### Score attainment of Course Outcome across Bachelor of Science (Medical) Semester- III

| Course Title                                                   | Course Code  | CO1 | CO2 | CO3 | CO4 |
|----------------------------------------------------------------|--------------|-----|-----|-----|-----|
| Punjabi Compulsory                                             | BSML3421     | 3.5 | 4   | 3   | 3   |
| Basic Punjabi                                                  | BSML3031     | 4   | 1   | 3   | 3   |
| Punjab History and Culture                                     | BSML3431     | 4   | 4   | 4   | 4   |
| English Compulsory                                             | BSML3212     | 3   | 3.5 | 2.5 | 3   |
| Evolution                                                      | BSMM3483(I)  | 3.5 | 3   | 4   | 3   |
| Biochemistry III                                               | BSMM3483(II) | 4   | 2.5 | 2   | 3   |
| Structure, Development and Reproduction in flowering plants-I  | BSMM3084(I)  | 3.5 | 1.5 | 3   | 0   |
| Structure, Development and Reproduction in flowering plants-II | BSMM3084(II) | 1.5 | 2   | 2   | 1   |
| Chemistry (organic)                                            | BSMM3075(I)  | 3.5 | 3   | 3   | 3   |
| Chemistry (Physical                                            | BSMM3075(II) | 3.5 | 3   | 3.5 | 3.5 |
| Food Chemistry and Nutrition                                   | BSMM3255     | 3   | 3   | 2   | 2   |
| Microbial Nutrition and Metabolism                             | BSMM3343     | 2   | 2.5 | 2.5 | 0   |

Student Percentage attaining CO between different range levels depending on weightage  
Bachelor of Science (Medical) (Semester- III)

| Number of students obtaining marks for each CO between | Percentage | Level   |
|--------------------------------------------------------|------------|---------|
| 75% to 100%                                            | 9          | Highest |
| 60% to 75%                                             | 5          | High    |
| 50% to 60%                                             | 1          | Medium  |
| 40% to 50%                                             | 1          | Lower   |
| below 40%                                              | 3          | Low     |

### Score attainment of Course Outcome across Bachelor of Science (Medical) Semester- IV

| Course Title                                      | Course Code  | CO1 | CO2 | CO3 | CO4 |
|---------------------------------------------------|--------------|-----|-----|-----|-----|
| Punjabi Compulsory                                | BSML4421     | 4   | 3   | 3   | 3.5 |
| Basic Punjabi                                     | BSML4031     | 3   | 3.5 | 3   | 3.5 |
| Punjab History and Culture                        | BSML4431     | 4   | 4   | 4   | 4   |
| English Compulsory                                | BSML4212     | 0   | 3.5 | 3.5 | 3.5 |
| Biochemistry                                      | BSMM4483(I)  | 4   | 3   | 3   | 3   |
| Animal Physiology                                 | BSMM4483(II) | 2.5 | 3.5 | 4   | 3.5 |
| Diversity of seed plants and their systematics-I  | BSMM4084(I)  | 2   | 2.5 | 3   | 1   |
| Diversity of seed plants and their systematics-II | BSMM4084(II) | 2   | 2.5 | 3   | 1   |
| Chemistry                                         | BSMM4075(I)  | 4   | 2   | 3.5 | 3   |
| Chemistry                                         | BSMM4075(II) | 2   | 4   | 2   | 1.5 |
| Microbial Ecology                                 | BSMM4255     | 1   | 3.5 | 3.5 | 3   |
| Quality Assurance                                 | BSMM4343     | 3.5 | 2.5 | 3   | 2   |

Student Percentage attaining CO between different range levels depending on weightage  
Bachelor of Science (Medical) Semester- IV

| Number of students obtaining marks for each CO between | Percentage | Level   |
|--------------------------------------------------------|------------|---------|
| 75% to 100%                                            | 2          | Highest |
| 60% to 75%                                             | 2          | High    |
| 50% to 60%                                             | 1          | Medium  |
| 40% to 50%                                             | 0          | Lower   |
| below 40%                                              | 7          | Low     |

### Score attainment of Course Outcome across Bachelor of Science (Medical) Semester- V

| Course Title               | Course Code    | CO1 | CO2  | CO3 | CO4 |
|----------------------------|----------------|-----|------|-----|-----|
| Punjabi Compulsory         | BSML-5421      | 4   | 4    | 3.5 | 4   |
| Basic Punjabi              | BSML-5031      | 4   | 4    | 3.5 | 1   |
| Punjab History and Culture | BSML-5431      | 4   | 4    | 4   | 4   |
| English Compulsory         | BCSL-5212      | 3   | 3.75 | 4   | 4   |
| Developmental Biology      | BSMM-5483 (I)  | 2   | 3    | 2.5 | 3   |
| Genetics                   | BSMM-5483 (II) | 3   | 3    | 3.5 | 3   |
| Botany                     | BSMM 5075 (I)  | 2.5 | 2    | 3   | 2   |
| Botany                     | BSMM 5075 (II) | 2   | 4    | 2.5 | 4   |
| Chemistry                  | BSMM-5084(I)   | 3.5 | 3    | 1.5 | 1   |
| Chemistry                  | BSMM-5084(II)  | 2.5 | 0    | 2   | 3   |
| Applied Microbiology-I     | BSMM 5343      | 3.5 | 4    | 4   | 4   |
| Food Analysis              | BSMM 5255      | 4   | 4    | 4   | 4   |

Student Percentage attaining CO between different range levels depending on weightage  
Bachelor of Science (Medical) Semester- V

| Number of students obtaining marks for each CO between | Percentage | Level   |
|--------------------------------------------------------|------------|---------|
| 75% to 100%                                            | 0          | Highest |
| 60% to 75%                                             | 0          | High    |
| 50% to 60%                                             | 3          | Medium  |
| 40% to 50%                                             | 2          | Lower   |
| below 40%                                              | 6          | Low     |

### Score attainment of Course Outcome across Bachelor of Science (Medical) Semester- VI

| Course Title                     | Course Code    | CO1 | CO2 | CO3 | CO4 |
|----------------------------------|----------------|-----|-----|-----|-----|
| Punjabi Compulsory               | BSML-6421      | 3   | 3   | 4   | 3   |
| Basic Punjabi                    | BSML-6031      | 4   | 4   | 3.5 | 4   |
| Punjab History and Culture       | BSML-6431      | 4   | 4   | 4   | 4   |
| English Compulsory               | BSML-6212      | 3   | 4   | 3   | 2   |
| Medical Zoology                  | BSMM-6483 (I)  | 4   | 3   | 3   | 3.5 |
| Medical Laboratory Technology    | BSMM-6483 (II) | 4   | 3   | 3   | 2   |
| Botany Ecology                   | BSMM-6075 (I)  | 3   | 3   | 3   | 4   |
| Botany Economic Botany           | BSMM-6075 (II) | 2.5 | 3   | 4   | 2   |
| Chemistry                        | BSMM-6084(I)   | 2.5 | 1   | 1   | 3   |
| Chemistry                        | BSMM-6084(II)  | 3.5 | 1   | 3   | 3   |
| Applied Microbiology-II          | BSMM 6343      | 4   | 4   | 4   | 4   |
| Food Plant Layout and Management | BSMM 6255      | 4   | 4   | 4   | 4   |

Student Percentage attaining CO between different range levels depending on weightage  
Bachelor of Science (Medical) Semester- VI

| Number of students obtaining marks for each CO between | Percentage | Level   |
|--------------------------------------------------------|------------|---------|
| 75% to 100%                                            | 0          | Highest |
| 60% to 75%                                             | 2          | High    |
| 50% to 60%                                             | 3          | Medium  |
| 40% to 50%                                             | 4          | Lower   |
| below 40%                                              | 2          | Low     |

### B.Sc. Medical Semester-I PSO Mapping

| Course Title (Course Code)             | Average PSO attainment Level |      |      |      |      |      |      |      |      |       |       |
|----------------------------------------|------------------------------|------|------|------|------|------|------|------|------|-------|-------|
|                                        | PSO1                         | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 | PSO8 | PSO9 | PSO10 | PSO11 |
| Punjabi (Compulsory) (BSML-1421)       | 1                            | 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 1     |
| Basic Punjabi (BSML-1031)              | 2                            | 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 1     |
| Punjab History and Culture (BSML-1431) | 0                            | 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 0     |
| English (Compulsory) (BSML-1212)       | 1                            | 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 1     |
| Zoology (CELL BIOLOGY) (BSMM 1483)     | 1                            | 1    | 1    | 1    | 1    | 1    | 0    | 1    | 1    | 0     | 0     |

|                                                                   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|
| (I))                                                              |   |   |   |   |   |   |   |   |   |   |   |
| Zoology<br>(BIODIVERSITY- I)<br>(BSMM 1483(II))                   | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| Botany (Diversity of<br>Microbes) (BSMM-<br>1075(I))              | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| Botany (Diversity of<br>Cryptogams) (BSMM<br>1075(II))            | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Chemistry (Inorganic<br>Chemistry) (BSMM-<br>1084(I))             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Chemistry (Organic<br>Chemistry) (BSMM-<br>1084(II))              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Microbiology<br>(Fundamentals of<br>Microbiology) (BSMM-<br>1343) | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food Science (Food<br>Chemistry And Nutrition)<br>( BSMM-1255)    | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

### B.Sc. Medical Semester-II PSO Mapping

| Course Title (Course<br>Code)             | Average PSO attainment Level |      |      |      |      |      |      |      |      |       |       |
|-------------------------------------------|------------------------------|------|------|------|------|------|------|------|------|-------|-------|
|                                           | PSO1                         | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 | PSO8 | PSO9 | PSO10 | PSO11 |
| Punjabi (Compulsory)<br>(BSML-2421)       | 1                            | 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 1     |
| Basic Punjabi (BSML-<br>2031)             | 2                            | 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 1     |
| Punjab History and<br>Culture (BSML-2431) | 0                            | 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 0     |
| English (Compulsory)<br>(BSML-2212)       | 1                            | 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 1     |
| ECOLOGY BSMM<br>2483(I)                   | 1                            | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 0    | 0     | 0     |
| BIODIVERSITY-II<br>243(II)                | 1                            | 1    | 1    | 1    | 1    | 1    | 0    | 1    | 1    | 0     | 0     |
| CELL BIOLOGY BSMM<br>2075 (I)             | 3                            | 0    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0     | 0     |



|                                              |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|
| Food Chemistry and Nutrition BSMM-3255       | 0 | 1 | 1 | 0 | 0 | 1 | 3 | 1 | 1 | 0 | 0 |
| Microbial Nutrition and Metabolism BSMM 3343 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 |

### B.Sc. Medical Semester-IV PSO Mapping

| Course Title (Course Code)                                        | Average PSO attainment Level |      |      |      |      |      |      |      |      |       |       |
|-------------------------------------------------------------------|------------------------------|------|------|------|------|------|------|------|------|-------|-------|
|                                                                   | PSO1                         | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 | PSO8 | PSO9 | PSO10 | PSO11 |
| Punjabi (Compulsory) (BSML-4421)                                  | 1                            | 0    | 1    | 0    | 0    | 0    | 1    | 0    | 0    | 0     | 1     |
| Basic Punjabi (BSML-4031)                                         | 1                            | 0    | 1    | 0    | 0    | 1    | 2    | 0    | 0    | 0     | 2     |
| Punjab History and Culture (BSML-4431)                            | 1                            | 0    | 2    | 0    | 2    | 0    | 0    | 0    | 0    | 0     | 2     |
| English (Compulsory) (BSML-4212)                                  | 1                            | 0    | 1    | 0    | 1    | 0    | 0    | 0    | 0    | 0     | 1     |
| Biochemistry (BSMM 4483-I)                                        | 2                            | 1    | 2    | 0    | 0    | 0    | 1    | 0    | 0    | 0     | 0     |
| Animal Physiology (BSMM 4483-II)                                  | 1                            | 1    | 1    | 0    | 0    | 0    | 1    | 0    | 0    | 0     | 0     |
| Diversity of seed plants and their systematics-I (BSMM 4075 -I)   | 0                            | 0    | 0    | 3    | 3    | 0    | 0    | 0    | 0    | 0     | 0     |
| Diversity of seed plants and their systematics-II (BSMM 4075 -II) | 0                            | 0    | 0    | 1    | 3    | 0    | 0    | 0    | 0    | 0     | 0     |
| Chemistry (BSMM-4084-I)                                           | 0                            | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 1     | 1     |
| Chemistry (BSMM-4084-II)                                          | 0                            | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 1     | 1     |
| MICROBIAL ECOLOGY (BSMM-4343)                                     | 1                            | 1    | 0    | 1    | 0    | 1    | 1    | 2    | 0    | 0     | 0     |
| Quality Assurance (BSMM -4255)                                    | 0                            | 0    | 0    | 0    | 0    | 1    | 2    | 1    | 1    | 1     | 0     |

### B.Sc. Medical Semester-V PSO Mapping

| Course Title (Course Code) | Average PSO attainment Level |      |      |      |      |      |      |      |      |       |       |
|----------------------------|------------------------------|------|------|------|------|------|------|------|------|-------|-------|
|                            | PSO1                         | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 | PSO8 | PSO9 | PSO10 | PSO11 |

|                                               |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|
| Punjabi<br>(Compulsory)<br>(BSML-5421)        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Basic Punjabi<br>(BSML-5031)                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Punjab History and<br>Culture (BSML-<br>5431) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| English<br>(Compulsory)<br>(BSML-5212)        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Developmental<br>Biology                      | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Genetics                                      | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Botany (BSMM<br>5075-I)                       | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Botany (BSMM<br>5075-II)                      | 2 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| Chemistry BSMM-<br>5084(I)                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Chemistry BSMM-<br>5084(II)                   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Applied<br>Microbiology-I                     | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food Analysis                                 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

### B.Sc. Medical Semester-VI PSO Mapping

| Course Title (Course<br>Code)             | Average PSO attainment Level |      |      |      |      |      |      |      |      |       |       |
|-------------------------------------------|------------------------------|------|------|------|------|------|------|------|------|-------|-------|
|                                           | PSO1                         | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 | PSO7 | PSO8 | PSO9 | PSO10 | PSO11 |
| Punjabi<br>(Compulsory)<br>(BSML-6421)    | 0                            | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 2    | 1     | 1     |
| Basic Punjabi (BSML-<br>6031)             | 0                            | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 2     | 2     |
| Punjab History and<br>Culture (BSML-6431) | 0                            | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 2     | 1     |
| English<br>(Compulsory)<br>(BSML-6212)    | 0                            | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 1     | 2     |

|                                  |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|
| Medical Zoology                  | 2 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Medical Lab Technology           | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Botany Ecology (BSMM 6075-I)     | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Economic Botany (BSMM 6075-II)   | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| Chemistry BSMM-6084(I)           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 |
| Chemistry BSMM-6084(II)          | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Applied Microbiology-II          | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 1 | 0 | 0 |
| Food Plant Layout and Management | 0 | 1 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 0 |

**Kanya Maha Vidyalaya, Jalandhar (Autonomous)**  
**Course Outcomes**  
**Session 2023-24**  
**Master of Science (Botany)**

Score attainment of Course Outcome across Master of Science (Botany) Semester I

| Course Name                              | Course Code | CO1 | CO2 | CO3 | CO4 |
|------------------------------------------|-------------|-----|-----|-----|-----|
| Fungi and Plant Pathology                | MBTL-1071   | 3   | 1   | 3   | 3.5 |
| Phycology                                | MBTL-1072   | 2.5 | 2.5 | 3   | 3   |
| Bryology                                 | MBTL-1073   | 3   | 2.5 | 2.5 | 2   |
| Plant Physiology                         | MBTL-1074   | 2   | 3   | 2.5 | 2.5 |
| Genetics and Evolution                   | MBTL-1075   | 2.5 | 4   | 3   | 3.5 |
| Computer Applications and Bioinformatics | MBTL-1046   | 4   | 4   | 3   | 2   |

Student Percentage attaining CO between different range levels depending on weightage for Master of Science (Botany) Semester I

| Number of students obtaining marks for each CO between | Average |         |
|--------------------------------------------------------|---------|---------|
| 75% to 100%                                            | 1.00    | Highest |
| 60% to 75%                                             | 3.00    | High    |
| 50% to 60%                                             | 2.00    | Medium  |
| 40% to 50%                                             | 0.00    | Lower   |

|           |      |     |
|-----------|------|-----|
| below 40% | 0.00 | Low |
|-----------|------|-----|

Score attainment of Course Outcome across Master of Science (Botany) Semester II

| Course Name                             | Course Code | CO1 | CO2 | CO3 | CO4 |
|-----------------------------------------|-------------|-----|-----|-----|-----|
| Pteridology                             | MBTL-2071   | 4   | 2.5 | 2.5 | 1.5 |
| Diversity and Biology of Gymnosperms    | MBTL-2072   | 4   | 4   | 3.5 | 4   |
| General Microbiology                    | MBTL-2073   | 2   | 3.5 | 4   | 3   |
| Cell Biology                            | MBTL-2074   | 4   | 3   | 3.5 | 3   |
| Ecological Modelling and Forest Ecology | MBTL-2075   | 4   | 2.5 | 3.5 | 3   |
| Theoretical Biology                     | MBTL-2336   | 3.5 | 1.5 | 4   | 4   |

Student Percentage attaining CO between different range levels depending on weightage for Master of Science (Botany) Semester II

| Number of students obtaining marks for each CO between | Average |        |
|--------------------------------------------------------|---------|--------|
| 75% to 100%                                            | 3.00    | Medium |
| 60% to 75%                                             | 3.00    | High   |
| 50% to 60%                                             | 0.00    | Medium |
| 40% to 50%                                             | 0.00    | Low    |
| below 40%                                              | 0.00    | High   |

Score attainment of Course Outcome across Master of Science (Botany) Semester III

| Course Name             | Course Code | CO1 | CO2 | CO3 | CO4 |
|-------------------------|-------------|-----|-----|-----|-----|
| Developmental Botany    | MBTL-3071   | 3   | 3   | 3   | 2   |
| Plant Molecular Biology | MBTL-3072   | 3.5 | 3.5 | 4   | 4   |
| Plant Breeding and IPR  | MBTL-3073   | 4   | 3   | 3   | 3   |
| Plant Biochemistry      | MBTL-3074   | 3.5 | 4   | 3   | 3   |
| Applied Botany          | MBTL-3075   | 4   | 3   | 2.5 | 4   |
| Plant Morphogenesis     | MBTL-3076   | 3.5 | 3.5 | 4   | 2   |

Student Percentage attaining CO between different range levels depending on weightage for Master of Science (Botany) Semester III

| Number of students obtaining marks for each CO between | Average |         |
|--------------------------------------------------------|---------|---------|
| 75% to 100%                                            | 4.00    | Highest |
| 60% to 75%                                             | 3.00    | High    |
| 50% to 60%                                             | 1.00    | Medium  |

|            |      |       |
|------------|------|-------|
| 40% to 50% | 1.00 | Lower |
| below 40%  | 0.00 | Low   |

Score attainment of Course Outcome across Master of Science (Botany) Semester IV

| Course Name                                | Course Code    | CO1 | CO2 | CO3 | CO4 |
|--------------------------------------------|----------------|-----|-----|-----|-----|
| Plant Anatomy                              | MBTL-4071      | 3.5 | 3.5 | 2   | 3   |
| Structure and Metabolism of Plant Hormones | MBTL-4072      | 4   | 4   | 4   | 3   |
| Plant Tissue Culture and Biotechnology     | MBTL-4073      | 3   | 3   | 3   | 3   |
| Analytical Techniques                      | MBTL-4074      | 3   | 3.5 | 3.5 | 3   |
| Diversity and Biology of Angiosperms       | MBTL-4075      | 2.5 | 4   | 3.5 | 2.5 |
| Immunology                                 | MBTL-4076 (II) | 2.5 | 2.5 | 3.5 | 3.5 |

Student Percentage attaining CO between different range levels depending on weightage for Master of Science (Botany) Semester IV

| Number of students obtaining marks for each CO between | Average |         |
|--------------------------------------------------------|---------|---------|
| 75% to 100%                                            | 4       | High    |
| 60% to 75%                                             | 3       | Highest |
| 50% to 60%                                             | 2       | Medium  |
| 40% to 50%                                             | 0       | Low     |
| below 40%                                              | 0       | Low     |

**Kanya Maha Vidyalaya, Jalandhar (Autonomous)**  
**Programme specific Outcomes**  
**Session 2023-24**

**Master of Science (Botany) Semester-I**

| Course Title              | Course Code | Average PSO attainment Level |      |      |      |      |
|---------------------------|-------------|------------------------------|------|------|------|------|
|                           |             | PSO1                         | PSO2 | PSO3 | PSO4 | PSO5 |
| Fungi and Plant Pathology | MBTL-1071   | 1                            | 2    | 0    | 1    | 1    |
| Phycology                 | MBTL-1072   | 0                            | 2    | 1    | 2    | 1    |
| Bryology                  | MBTL-1073   | 1                            | 1    | 2    | 0    | 2    |
| Plant Physiology          | MBTL-1074   | 1                            | 0    | 2    | 3    | 0    |

|                                          |           |   |   |   |   |   |
|------------------------------------------|-----------|---|---|---|---|---|
| Genetics and Evolution                   | MBTL-1075 | 3 | 0 | 1 | 0 | 1 |
| Computer applications and Bioinformatics | MBTL-1046 | 0 | 0 | 2 | 0 | 1 |

### Master of Science (Botany) Semester-II

| Course Title                            | Course Code | Average PSO attainment Level |      |      |      |      |
|-----------------------------------------|-------------|------------------------------|------|------|------|------|
|                                         |             | PSO1                         | PSO2 | PSO3 | PSO4 | PSO5 |
| Pteridology                             | MBTL-2071   | 1                            | 2    | 1    | 1    | 0    |
| Diversity and Biology of Gymnosperm     | MBTL-2072   | 2                            | 1    | 2    | 0    | 1    |
| General Microbiology                    | MBTL-2073   | 0                            | 3    | 1    | 1    | 0    |
| Cell Biology                            | MBTL-2074   | 3                            | 0    | 0    | 1    | 0    |
| Ecological modelling and forest Ecology | MBTL-2075   | 3                            | 3    | 2    | 0    | 0    |
| Theoretical Biology                     | MBTL-2336   | 3                            | 2    | 2    | 0    | 0    |

### Master of Science (Botany) Semester-III

| Course Title           | Course Code | Average PSO attainment Level |      |      |      |      |
|------------------------|-------------|------------------------------|------|------|------|------|
|                        |             | PSO1                         | PSO2 | PSO3 | PSO4 | PSO5 |
| Development Botany     | MBTL-3071   | 3                            | 3    | 1    | 0    | 0    |
| Molecular Biology      | MBTL-3072   | 0                            | 0    | 4    | 0    | 2    |
| Plant Breeding and IPR | MBTL-3073   | 2                            | 0    | 1    | 2    | 1    |
| Plant Biochemistry     | MBTL-3074   | 3                            | 0    | 3    | 0    | 0    |

|                     |           |   |   |   |   |   |
|---------------------|-----------|---|---|---|---|---|
| Applied Botany      | MBTL-3075 | 0 | 2 | 2 | 4 | 0 |
| Plant Morphogenesis | MBTL-3076 | 2 | 3 | 1 | 1 | 0 |

### Master of Science (Botany) Semester-IV

| Course Title                               | Course Code      | Average PSO attainment Level |      |      |      |      |
|--------------------------------------------|------------------|------------------------------|------|------|------|------|
|                                            |                  | PSO1                         | PSO2 | PSO3 | PSO4 | PSO5 |
| Plant Anatomy                              | MBTL-4071        | 3                            | 0    | 0    | 3    | 0    |
| Structure and Metabolism of Plant Hormones | MBTL-4072        | 1                            | 3    | 1    | 2    | 0    |
| Plant Tissue Culture and Biotechnology     | MBTL-4073        | 2                            | 1    | 2    | 2    | 0    |
| Analytical Techniques                      | MBTL-4074        | 2                            | 0    | 1    | 0    | 3    |
| Diversity and Biology of Angiosperm        | MBTL-4075        | 2                            | 0    | 2    | 0    | 3    |
| Immunology                                 | MBTL-4071(Opt-B) | 3                            | 2    | 2    | 0    | 0    |

### Master of Science (Botany)

| PSO Attainment Level | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|----------------------|------|------|------|------|------|
| Semester-I           | 1    | 2    | 1    | 2    | 1    |
| Semester-II          | 2    | 1    | 1    | 1    | 1    |
| Semester-III         | 2    | 2    | 2    | 2    | 1    |
| Semester-IV          | 2    | 2    | 1    | 2    | 3    |

