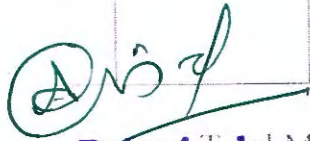


# DEVI AHILYA VISHWAVIDYALAYA , INDORE

2016-17 onwards

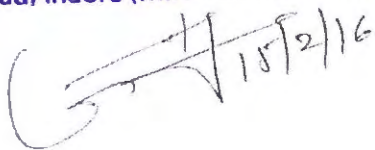
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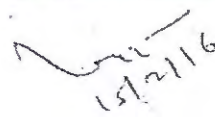
| Semester  | अनिवार्य<br>(Compulsory)<br>या / वा<br>वैकल्पिक<br>(Optional)         | विशिष्टकरण<br>विषय समूह<br>(Specialisation<br>Subject Group) | प्रश्न पत्र<br>क्रमांक<br>Question<br>Paper No. | प्रश्न पत्र का शीर्षक<br>(Title of the<br>Question Paper)               | Marks<br>Alloted<br>for<br>Two<br>CCE<br>दो सत्र<br>समय<br>मूल्यांकन<br>के अंको<br>का<br>आवटन | Marks<br>Alloted<br>for<br>Semester<br>Ending<br>Main<br>Exam<br>सेमेस्टर<br>अंत मुख्य<br>परीक्षा के<br>अंको का<br>आवटन | Total<br>Marks<br>Alloted<br>for<br>Paper<br>प्रश्न<br>पत्र के<br>लिए<br>कुल<br>अंको<br>का<br>आवटन |
|---|---|--|---|---|---|---|--|
| I   | वैकल्पिक<br>(Optional)<br><br>Marketing<br>Management<br>विपणन प्रबंध | D-401  | I   | Advertising and<br>Sales Management<br>विज्ञापन एवं विक्रय<br>प्रबंध    | 15  | 85  | 100  |
|   |   | D-402  | II  | Consumer<br>Behaviour<br>उपभोक्ता व्यवहार                               | 15  | 85  | 100  |
|   |   | D-403  | III   | Rural and<br>Agricultural<br>Marketing<br>ग्रामीण तथा कृषि<br>विपणन     | 15  | 85  | 100  |
|   |   | D-404  | IV  | International<br>Marketing<br>अंतर्राष्ट्रीय विपणन                      | 15  | 85  | 100  |
|   |   | D-405  | V   | Employment<br>Oriented Project<br>Work<br>रोजगार मूलक<br>परियोजना कार्य |   |   | 100  |
| Principal   |   |  |   |   |   |   | 500  |
| Shree Umiya Kanya Mahavidyalaya<br>Rangwasa (Rau) Indore (M.P.) |   |  |   |   |   |   | 100  |

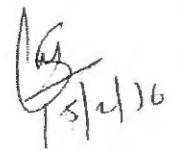


**Principal**


Shree Umiya Kanya Mahavidyalaya  
Rangwasa (Rau) Indore (M.P.)

  
15/2/16

  
15/2/16

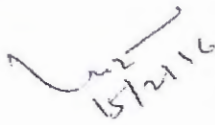
  
15/2/16

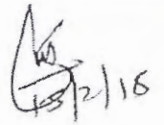
| परीक्षा<br>(Semester) | अनिवार्य<br>(Compulsory)<br>या / Or<br>वैकल्पिक<br>(Optional)  | विशिष्टकरण<br>विषय समूह<br>(Specialisation<br>Subject Group) | प्रश्न पत्र<br>क्रमांक<br>Question<br>Paper No. | प्रश्न पत्र का शीर्षक<br>(Title of the<br>Question Paper)  | Marks<br>Alloted<br>for<br>Two<br>CCE<br>दो सत्रों<br>समग्र<br>मूल्यांकन<br>के अंको<br>का<br>आवंटन | Marks<br>Alloted<br>for<br>Semester<br>Ending<br>Main<br>Exam<br>सेमेस्टर<br>अंत मुख्य<br>परीक्षा के<br>अंको का<br>आवंटन | Total<br>Marks<br>Alloted<br>for<br>Paper<br>प्रश्न<br>पत्र के<br>लिए<br>कुल<br>अंको<br>का<br>आवंटन |
|-----------------------|--|--|---|--|--|--|---|
| IV<br>सत्र            | वैकल्पिक<br>1/4 Optional 1/2<br><br>Financial<br>Analysis &<br>Control<br>वित्तीय<br>अभिलेखण एवं<br>नियंत्रण | E-501  | I   | Security Analysis<br>And Portfolio<br>Management<br>प्रतिभुति विश्लेषण एवं<br>पोर्टफोलियो प्रबंध | 15   | 85   | 100   |
|                       |  | E-502  | II  | Strategic<br>Financial<br>Management<br>व्युहरचना वित्तीय<br>प्रबंध                              | 15   | 85   | 100   |
|                       |  | E-503  | III   | Project Planning<br>and Management<br>परियोजना नियोजन<br>तथा प्रबंध                              | 15   | 85   | 100   |
|                       |  | E-504  | IV  | Indian Financial<br>System<br>भारतीय वित्तीय<br>प्रणाली  | 15   | 85   | 100   |
|                       |  | E-505  | V   | Employment<br>Oriented Project<br>Work<br>राजगार मूलक<br>परियोजना कार्य                          |  |  | 100   |
| Total Marks / कुल अंक |  |  |   |  |  |  | 500   |
| Project/Intemship     |  |  |   |  |  |  | 100   |



**Principal**

Shree Umiya Kanya Mahavidhyalay  
Rangwasa (Rau) Indore (M.P.)

  
15/2/16

  
15/2/16



| Semester<br>(Semester)   | अनिवार्य<br>(Compulsory)<br>या / Or<br>वैकल्पिक<br>(Optional) | विशिष्टकरण<br>विषय समूह<br>(Specialisation<br>Subject<br>Group) | प्रश्न पत्र<br>क्रमांक<br>Question<br>Paper<br>No. | प्रश्न पत्र का शीर्षक<br>(Title of the<br>Question Paper)               | Marks<br>Alloted<br>for<br>Two<br>CCE<br>दो सत्र<br>समग्र<br>मूल्यांकन<br>के अंको<br>का<br>आवंटन | Marks<br>Alloted<br>for<br>Semester<br>Ending<br>Main<br>Exam<br>सेमेस्टर<br>अंत मुख्य<br>परीक्षा के<br>अंको का<br>आवंटन | Total<br>Marks<br>Alloted<br>for<br>Paper<br>प्रश्न<br>पत्र के<br>लिए<br>कुल<br>अंकों<br>का<br>आवंटन |
|--|---|---|--|---|--|--|--|
| IV<br>ग्रेजुएट   | वैकल्पिक<br>(Optional)<br><br>Accounting<br>लेखांकन           | F-601   | I  | Corporate<br>Accounting<br>निगमीय लेखांकन                               | 15   | 85   | 100  |
|  |   | F-602   | II   | Cost<br>Administration<br>and Control<br>लागत प्रशासन एवं<br>नियंत्रण   | 15   | 85   | 100  |
|  |   | F-603   | III  | Accounting<br>Theory<br>लेखांकन सिद्धांत                                | 15   | 85   | 100  |
|  |   | F-604   | IV   | Institutional<br>Accounting<br>संस्थागत लेखांकन                         | 15   | 85   | 100  |
|  |   | F-605   | V  | Employment<br>Oriented Project<br>Work<br>रोजगार मूलक<br>परियोजना कार्य |  |  | 100  |
| Principal<br>Shree Umiya Kanya Mahavidyalaya<br>Rangwasa (Rau) Indore (M.P.) |   |   |  |   |  |  | 500  |
| Project/Internship   |   |   |  |   |  |  | 100  |

15/2/16

15/2/16

15/2/16

| Semester              | अनिवार्य<br>(Compulsory)<br>या / Or<br>वैकल्पिक<br>(Optional) | विश्लेषण<br>विषय समूह<br>(Specialisation<br>Subject<br>Group) | प्रश्न पत्र<br>क्रमांक<br>Question<br>Paper<br>No. | प्रश्न पत्र का<br>शीर्षक<br>(Title of the<br>Question<br>Paper)       | Marks<br>Alloted<br>for<br>Two<br>CCE<br>दो सत्र<br>समग्र<br>मूल्यांकन<br>के अंको<br>का<br>आवंटन | Marks<br>Alloted<br>for<br>Semester<br>Ending<br>Main<br>Exam<br>सेमेस्टर<br>अंत मुख्य<br>परीक्षा के<br>अंको का<br>आवंटन | Total<br>Marks<br>Alloted<br>for<br>Paper<br>प्रश्न<br>पत्र के<br>लिए<br>कुल<br>अंको<br>का<br>आवंटन |
|-----------------------|---|---|--|---|--|--|---|
| IV<br>चतुर्थ          | वैकल्पिक<br>(Optional)<br><br>Taxation<br>कराधान              | G-701   | I  | Direct Tax<br>In India<br>भारत में प्रत्यक्ष कर                       | 15   | 85   | 100   |
|                       |   | G-702   | II   | Business<br>Taxation<br>व्यवसायिक कराधान                              | 15   | 85   | 100   |
|                       |   | G-703   | III  | Indirect<br>Taxation<br>अप्रत्यक्ष कर                                 | 15   | 85   | 100   |
|                       |   | G-704   | IV   | Sales and<br>Service Tax<br>विक्रय एवं सेवाकर                         | 15   | 85   | 100   |
|                       |   | G-705   | V  | Employment<br>Oriented<br>Project<br>Work<br>रोजगार मूलक परियोजना का; |  |  | 100   |
| Total Marks / कुल अंक |   |   |  |   |  |  | 500   |
| Project/Internship    |   |   |  |   |  |  | 100   |

*(Signature)*  
Principal

Shree Umiya Kanya Mahavidyalaya  
Rangwasa (Rau) Indore (M.P.)

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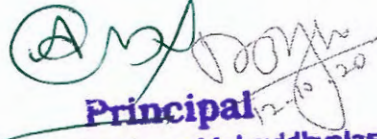
Semester IV

Paper V - G- 705 - Employment Oriented Project Work  
रोजगार मूलक परियोजना कार्य

उच्च शिक्षा विभाग द्वारा दिये गये निर्देशानुसार परियोजना कार्य विद्यार्थियों को पूर्ण करना है।

Students have to complete their project work as per instructions given by the Department of Higher Education.

12/10/2020



Principal

Shree Umiya Kanya Mahavidhyalay  
Rangwasa (Rau) Indore (M.P.)



DEVI AHILYA VISHWAVIDYALAYA, INDORE

M.Sc. (Microbiology): Four Semester Course

(Duration: Two years)

| M. Sc. Sem. I   |   |               |          |                       |          |
|-----------------|---|---------------|----------|-----------------------|----------|
| Paper           | Subject                                 | Maximum Marks |          | Minimum Passing Marks |          |
|                 |   | Theory        | C. C. E. | Theory                | C. C. E. |
| I               | Bacteriology                            | 85            | 15       | 28                    | 05       |
| II              | Virology, Mycology and Phycology        | 85            | 15       | 28                    | 05       |
| III             | Immunology                              | 85            | 15       | 28                    | 05       |
| IV              | Microbial Biochemistry                  | 85            | 15       | 28                    | 05       |
| Practical       | Lab course – I (Paper I and II)         | 50            |          | 20                    |          |
| Practical       | Lab course – II (Paper III and IV)      | 50            |          | 20                    |          |
|                 | Total Marks                             | 500           |          |                       |          |
| M. Sc. Sem. II  |   |               |          |                       |          |
| Paper           | Subject                                 | Maximum Marks |          | Minimum Passing Marks |          |
|                 |   | Theory        | C. C. E. | Theory                | C. C. E. |
| I               | Microbial Genetics                      | 85            | 15       | 28                    | 05       |
| II              | Microbial Physiology                    | 85            | 15       | 28                    | 05       |
| III             | Instrumentation                         | 85            | 15       | 28                    | 05       |
| IV              | Bioprocess Technology                   | 85            | 15       | 28                    | 05       |
| Practical       | Lab course – I (Paper I and II)         | 50            |          | 20                    |          |
| Practical       | Lab course – II (Paper III and IV)      | 50            |          | 20                    |          |
|                 | Total Marks                             | 500           |          |                       |          |
| M. Sc. Sem. III |   |               |          |                       |          |
| Paper           | Subject                                 | Maximum Marks |          | Minimum Passing Marks |          |
|                 |   | Theory        | C. C. E. | Theory                | C. C. E. |
| I               | Molecular Biology & Genetic Engineering | 85            | 15       | 28                    | 05       |
| II              | Medical Microbiology                    | 85            | 15       | 28                    | 05       |
| III             | Biostatistics and Bioinformatics        | 85            | 15       | 28                    | 05       |
| IV              | Applied Microbiology                    | 85            | 15       | 28                    | 05       |
| Practical       | Lab course – I (Paper I and II)         | 50            |          | 20                    |          |
| Practical       | Lab course – II (Paper III and IV)      | 50            |          | 20                    |          |
|                 | Total Marks                             | 500           |          |                       |          |

*Anil*

**Principal**

Shree Umiya Kanya Mahavidyalaya  
Rangwasa (Rau) Indore (M.P.)

*H.P. Pandey*

*phank*

*Kathore*

*Ugale*

| M. Sc. Sem. IV                             |   |               |          |                       |          |
|--|---|---------------|----------|-----------------------|----------|
| Paper                                      | Subject                                       | Maximum Marks |          | Minimum Passing Marks |          |
|  |   | Theory        | C. C. E. | Theory                | C. C. E. |
| I  | Pharmaceutical Microbiology                   | 85            | 15       | 28                    | 05       |
| II   | Food and Dairy Microbiology                   | 85            | 15       | 28                    | 05       |
| III  | Environmental Microbiology and Phytopathology | 85            | 15       | 28                    | 05       |
| IV   | Bio-Nanotechnology and Stem Cell Technology   | 85            | 15       | 28                    | 05       |
|  | Project Work                                  | 100           |          | 40                    |          |
| Practical                                  | Lab course – I (Paper I and II)               | 50            |          | 20                    |          |
| Practical                                  | Lab course – II (Paper III and IV)            | 50            |          | 20                    |          |
|  | Total Marks                                   | 600           |          |                       |          |
|  | Grand Total Marks                             | 2100          |          |                       |          |
| Theory-50 lectures/paper (1 lecture = 1hr) |   |               |          |                       |          |

| General Scheme for Practical Examination (Minimum 2 days)<br>M.Sc. Microbiology |   |          |
|---|---|----------|
| Lab Course I<br>(Paper I & II)<br>Total marks- 50                               | Q.1 Major Exercise with options from Paper I        | 12 Marks |
|   | Q.2 Major Exercise with options from Paper II       | 12 Marks |
|   | Q.3 Minor Exercise with options from Paper I & II   | 10 Marks |
|   | Q.4 Viva-Voce                                       | 08 Marks |
|   | Q.5 Journal   | 08 Marks |
| Lab Course II<br>(Paper III & IV)<br>Total marks- 50                            | Q.1 Major Exercise with options from Paper III      | 12 Marks |
|   | Q.2 Major Exercise with options from Paper IV       | 12 Marks |
|   | Q.3 Minor Exercise with options from Paper III & IV | 10 Marks |
|   | Q.4 Viva-Voce                                       | 08 Marks |
|   | Q.5 Journal   | 08 Marks |

  
**Principal**  
 Shree Umiya Kanya Mahavidhyalaya  
 Rangwasa (Rau) Indore (M.P.)

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# DEVI AHILYA VISHWAVIDYALAYA, INDORE



## Detailed Syllabus of

## M.Sc.(CS)

Effective From July – 2011

  
**Principal**

Shree Umiya Kanya Mahavidhyalay  
Rangwasa (Rau) Indore (M.P.)

TOTAL PAGES = 52

Effective for Students Admitted in July, 2011 onwards



(Effective from Jan 2012)

**IV Semester:**

| Course Code | Title                             | Scheme of marks |           | Total |
|-------------|-----------------------------------|-----------------|-----------|-------|
|             |                                   | Theory          | Practical |       |
| CS-401      | Linux/Unix Administration         | 50              | 50        | 100   |
| CS-402      | Compiler Design                   | 50              | -         | 50    |
| CS-403      | Internet & Web Technology         | 50              | 50        | 100   |
| CS-404      | Design and Analysis of Algorithms | 50              | 50        | 100   |
| CS-405      | Major Project                     |                 | 50        | 100   |
| Total       |                                   | 200             | 200       | 400   |

**Scheme for award of degree shall be same as for MBA (CM)**

Minimum passing mark in theory shall be 40%. Aggregate pass percentage shall be 45 %. The result shall be declared as PASS/ FAIL (No supplementary or ATKT exam). If the aggregate percentage is  $\geq 45\%$  and even if student is failing in one or more subject, then the result shall be declared as PASS.

On the basis of aggregate of the total marks obtained in all semesters, the division will be decided as under:

- 1) First Division 60 % or above
- 2) Second Division 50 % or above

On the basis of Aggregate of total marks obtained in two years.

**Principal**

Shree Umiya Kanya Mahavidhyalay  
Rangwasa (Rau) Indore (M.P.)

Effective for Students Admitted in July, 2011 onwards

DEVI AHILYA VISHWAVIDYALAYA, INDORE

Scheme of Marks

M. Sc. Chemistry

SEMESTER - IV

21/1

| Paper | Compulsory | Optional | Paper Title                                 | Code (MCID) | Max. Marks        |
|-------|------------|----------|---|-------------|-------------------|
| I     | Compulsory |          | APPLICATIONS OF SPECTROSCOPY-II             | 511         | 85+ 15(CCE) = 100 |
| II    | Compulsory |          | SOLID STATE CHEMISTRY                       | 512         | 85+ 15(CCE) = 100 |
| III   | Compulsory |          | BIOCHEMISTRY                                | 513         | 85+ 15(CCE) = 100 |
| IV    | Optional   |          | ANY TWO                                     | 514-518     | 85+ 15(CCE) = 100 |
| V     | Optional   |          | PRacticals - Inorganic, Organic, Analytical |             | 85+ 15(CCE) = 100 |
|       |            |          | Project Work                                |             | 33                |
|       |            |          |   |             | 33                |
|       |            |          |   |             | 34                |
|       |            |          |   |             | 100               |
|       |            |          |   |             | 100               |

*(Signature)*

**Principal**

Shree Umiya Kanya Mahavidhyalay  
Rangwasa (Rau) Indore (M.P.)