

**STUDY & EVALUATION SCHEME**  
**BCA (BACHELOR OF COMPUTER APPLICATION)**  
**I YEAR: I SEMESTER**

| S. NO.                            | SUBJECT CODE | SUBJECT                         | L         | T        | P         | CIE        | ESE        | TOTAL      | C         | COURSE TYPE   | FACULTY |
|-----------------------------------|--------------|---------------------------------|-----------|----------|-----------|------------|------------|------------|-----------|---------------|---------|
| <b>THEORY</b>                     |              |                                 |           |          |           |            |            |            |           |               |         |
| 1                                 | UCS1001      | Problem Solving using Computer  | 4         | 0        | 0         | 40         | 60         | 100        | 4         | Major         | Own     |
| 2                                 | UCS1003      | Computer and C Fundamentals     | 3         | 0        | 0         | 40         | 60         | 100        | 3         | Major         | Own     |
| 3                                 | UCS1501SE    | Digital Aptitude and Logic      | 2         | 0        | 0         | 40         | 60         | 100        | 2         | Skill         | Own     |
| 4                                 | UMA1007      | Basic Mathematics-I             | 3         | 2        | 0         | 40         | 60         | 100        | 4         | Major         | Other   |
| 5                                 | UMA1008      | Introduction to Management      | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major         | Other   |
| 6                                 | UBS1401      | Food, Nutrition and Hygiene     | 2         | 0        | 0         | 100        | -          | 100        | 2         | Co-Curricular | Other   |
| <b>PRACTICAL/TRAINING/PROJECT</b> |              |                                 |           |          |           |            |            |            |           |               |         |
| 7                                 | UCS1201      | Software Lab using Python       | 0         | 0        | 4         | 80         | 20         | 100        | 2         | Major         | Own     |
| 8                                 | UCS1204      | Computer and C Fundamentals Lab | 0         | 0        | 4         | 80         | 20         | 100        | 2         | Major         | Own     |
| 9                                 | UCS1502SE    | Digital Aptitude and Logic Lab  | 0         | 0        | 2         | 80         | 20         | 100        | 1         | Skill         | Own     |
| <b>TOTAL</b>                      |              |                                 | <b>17</b> | <b>3</b> | <b>10</b> | <b>540</b> | <b>360</b> | <b>900</b> | <b>24</b> |               |         |

- L - Lecture  
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**STUDY & EVALUATION SCHEME**  
**BCA (BACHELOR OF COMPUTER APPLICATION)**  
**I YEAR: II SEMESTER**

| S. NO.                            | SUBJECT CODE | SUBJECT                        | L         | T        | P        | CIE        | ESE        | TOTAL       | C         | COURSE TYPE   | FACULTY |
|-----------------------------------|--------------|--------------------------------|-----------|----------|----------|------------|------------|-------------|-----------|---------------|---------|
| <b>THEORY</b>                     |              |                                |           |          |          |            |            |             |           |               |         |
| 1                                 | UCS2001      | Operating Systems              | 4         | 0        | 0        | 40         | 60         | 100         | 4         | Major         | Own     |
| 2                                 | UCS2003      | Structured Programming using C | 4         | 0        | 0        | 40         | 60         | 100         | 4         | Major         | Own     |
| 3                                 | UMA2006      | Basics Mathematics-II          | 3         | 2        | 0        | 40         | 60         | 100         | 4         | Major         | Other   |
| 4                                 |              | Minor Elective-I               | 4         | 0        | 0        | 40         | 60         | 100         | 4         | Major         | Other   |
| 5                                 | UEG2504SE    | Functional English             | 2         | 0        | 0        | 40         | 60         | 100         | 2         | Skill         | Other   |
| 6                                 | UPC2401      | First Aid and Health           | 2         | 0        | 0        | 100        | -          | 100         | 2         | Co-Curricular | Other   |
| <b>PRACTICAL/TRAINING/PROJECT</b> |              |                                |           |          |          |            |            |             |           |               |         |
| 7                                 | UCS2201      | Operating Systems Lab          | 0         | 0        | 4        | 80         | 20         | 100         | 2         | Major         | Own     |
| 8                                 | UCS2202      | Structured Programming using C | 0         | 0        | 2        | 80         | 20         | 100         | 1         | Major         | Own     |
| 9                                 | UCS260IIV    | Industrial Visit-I             | 0         | 0        | 2        | 100        | -          | 100         | 1         | Major         | Own     |
| 10                                | UEG2503SE    | Functional English Lab         | 0         | 0        | 2        | 80         | 20         | 100         | 1         | Skill         | Other   |
| <b>TOTAL</b>                      |              |                                | <b>19</b> | <b>2</b> | <b>8</b> | <b>640</b> | <b>360</b> | <b>1000</b> | <b>25</b> |               |         |

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**STUDY & EVALUATION SCHEME**  
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**II YEAR: III SEMESTER**

| S. NO.                            | SUBJECT CODE | SUBJECT                               | L         | T        | P        | CIE        | ESE        | TOTAL       | C         | COURSE TYPE   | FACULTY |
|-----------------------------------|--------------|---------------------------------------|-----------|----------|----------|------------|------------|-------------|-----------|---------------|---------|
| <b>THEORY</b>                     |              |                                       |           |          |          |            |            |             |           |               |         |
| 1                                 | UCS3001      | Database Management Systems           | 4         | 0        | 0        | 40         | 60         | 100         | 4         | Major         | Own     |
| 2                                 | UCS3002      | Object-Oriented Programming using C++ | 3         | 0        | 0        | 40         | 60         | 100         | 3         | Major         | Own     |
| 3                                 | UCS3501SE    | Fundamental of Animation              | 3         | 0        | 0        | 40         | 60         | 100         | 3         | Skills        | Own     |
| 4                                 | UCM3002      | Financial Management                  | 3         | 1        | 0        | 40         | 60         | 100         | 4         | Major         | Other   |
| 5                                 | UMA3008      | Discrete Mathematics and Graph Theory | 3         | 2        | 0        | 40         | 60         | 100         | 4         | Major         | Other   |
| 6                                 | USO3401      | Human Values and Environment Studies  | 2         | 0        | 0        | 100        | -          | 100         | 2         | Co-Curricular | Other   |
| <b>PRACTICAL/TRAINING/PROJECT</b> |              |                                       |           |          |          |            |            |             |           |               |         |
| 7                                 | UCS3201      | Database Management Systems Lab       | 0         | 0        | 4        | 80         | 20         | 100         | 2         | Major         | Own     |
| 8                                 | UCS3202      | C++ Programming Lab                   | 0         | 0        | 2        | 80         | 20         | 100         | 1         | Major         | Own     |
| 9                                 | UCS3701SM    | Seminar-I                             | 0         | 0        | 2        | 100        | -          | 100         | 1         | Major         | Own     |
| 10                                | UCS3601IV    | Industrial Visit- II                  | 0         | 0        | 0        | 100        | -          | 100         | 1         | Major         | Own     |
| <b>TOTAL</b>                      |              |                                       | <b>18</b> | <b>3</b> | <b>8</b> | <b>660</b> | <b>340</b> | <b>1000</b> | <b>25</b> |               |         |

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**STUDY & EVALUATION SCHEME**  
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**II YEAR: IV SEMESTER**

| S. NO.                            | SUBJECT CODE | SUBJECT                                | L         | T        | P         | CIE        | ESE        | TOTAL       | C         | COURSE TYPE   | FACULTY |
|-----------------------------------|--------------|--|-----------|----------|-----------|------------|------------|-------------|-----------|---------------|---------|
| <b>THEORY</b>                     |              |  |           |          |           |            |            |             |           |               |         |
| 1                                 | UCS4001      | Web Technology                         | 4         | 0        | 0         | 40         | 60         | 100         | 4         | Major         | Own     |
| 2                                 | UCS4002      | Software Engineering                   | 3         | 1        | 0         | 40         | 60         | 100         | 4         | Major         | Own     |
| 3                                 | UCS4003      | Object Oriented Programming using Java | 3         | 0        | 0         | 40         | 60         | 100         | 3         | Major         | Own     |
| 4                                 | UCS4501SE    | Asp.Net                                | 2         | 0        | 0         | 40         | 60         | 100         | 2         | Skill         | Own     |
| 5                                 |              | Minor Elective-II                      | 4         | 0        | 0         | 40         | 60         | 100         | 4         | Major         | Other   |
| 6                                 | UPE4401      | Physical Education and Yoga            | 2         | 0        | 0         | 100        | -          | 100         | 2         | Co-Curricular | Other   |
| <b>PRACTICAL/TRAINING/PROJECT</b> |              |  |           |          |           |            |            |             |           |               |         |
| 7                                 | UCS4201      | Web Technology Lab                     | 0         | 0        | 2         | 80         | 20         | 100         | 1         | Major         | Own     |
| 8                                 | UCS4502SE    | Asp.Net Lab                            | 0         | 0        | 2         | 80         | 20         | 100         | 1         | Skill         | Own     |
| 9                                 | UCS4202      | Java Programming Lab                   | 0         | 0        | 4         | 80         | 20         | 100         | 2         | Major         | Own     |
| 10                                | UCS4702SM    | Seminar-II                             | 0         | 0        | 2         | 100        | -          | 100         | 1         | Major         | Own     |
| 11                                | UCS4601IV    | Industrial Visit-III                   | 0         | 0        | 0         | 100        | -          | 100         | 1         | Major         | Own     |
| <b>TOTAL</b>                      |              |  | <b>18</b> | <b>1</b> | <b>10</b> | <b>740</b> | <b>360</b> | <b>1100</b> | <b>25</b> |               |         |

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**III YEAR: V SEMESTER**

| S. NO.                            | SUBJECT CODE | SUBJECT  | L         | T        | P         | CIE        | ESE        | TOTAL      | C         | COURSE TYPE   | FACULTY |
|-----------------------------------|--------------|--|-----------|----------|-----------|------------|------------|------------|-----------|---------------|---------|
| <b>THEORY</b>                     |              |  |           |          |           |            |            |            |           |               |         |
| 1                                 | UCS5001      | Analysis of Algorithms and Data Structures       | 4         | 0        | 0         | 40         | 60         | 100        | 4         | Major         | Own     |
| 2                                 | UCS5002      | E-Commerce                                       | 4         | 0        | 0         | 40         | 60         | 100        | 4         | Major         | Own     |
| 3                                 | UCS5010      | Internet of Things                               | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major         | Own     |
| 4                                 |              | Elective- I                                      | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major         | Own     |
| 5                                 | UAP5401      | Analytic Ability and Digital Awareness           | 2         | 0        | 0         | 100        | -          | 100        | 2         | Co-Curricular | Own     |
| <b>PRACTICAL/TRAINING/PROJECT</b> |              |  |           |          |           |            |            |            |           |               |         |
| 6                                 | UCS5201      | Lab on Algorithms and Data Structures Using Java | 0         | 0        | 4         | 80         | 20         | 100        | 2         | Major         | Own     |
| 7                                 | UCS5701PJ    | Research Project-I                               | 0         | 0        | 6         | 100        | -          | 100        | 3         | Major         | Own     |
| 8                                 | UCS5701SM    | Seminar-III                                      | 0         | 0        | 2         | 100        | -          | 100        | 1         | Major         | Own     |
| 9                                 | UCS5601IV    | Industrial Visit-IV                              | 0         | 0        | 0         | 100        | -          | 100        | 1         | Major         | Own     |
| <b>TOTAL</b>                      |              |  | <b>16</b> | <b>2</b> | <b>12</b> | <b>640</b> | <b>260</b> | <b>900</b> | <b>25</b> |               |         |

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**III YEAR: VI SEMESTER**

| S. NO.                            | SUBJECT CODE | SUBJECT  | L         | T        | P         | CIE        | ESE        | TOTAL      | C         | COURSE TYPE   | FACULTY |
|-----------------------------------|--------------|--|-----------|----------|-----------|------------|------------|------------|-----------|---------------|---------|
| <b>THEORY</b>                     |              |  |           |          |           |            |            |            |           |               |         |
| 1                                 | UCS6001      | Data Communication and Computer Network          | 4         | 0        | 0         | 40         | 60         | 100        | 4         | Major         | Own     |
| 2                                 | UCS6002      | Information Security & Cyber Laws                | 4         | 0        | 0         | 40         | 60         | 100        | 4         | Major         | Own     |
| 3                                 |              | Elective II                                      | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major         | Own     |
| 4                                 |              | Elective III                                     | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major         | Own     |
| 5                                 | USS6401      | Communication Skills and Personality Development | 2         | 0        | 0         | 100        | -          | 100        | 2         | Co-Curricular | Other   |
| <b>PRACTICAL/TRAINING/PROJECT</b> |              |  |           |          |           |            |            |            |           |               |         |
| 6                                 | UCS6201      | Lab on Computer Networks                         | 0         | 0        | 4         | 80         | 20         | 100        | 2         | Major         | Own     |
| 7                                 | UCS6701PJ    | Research Project-II                              | 0         | 0        | 6         | 100        | -          | 100        | 3         | Major         | Own     |
| 8                                 | UCS6702SM    | Seminar-IV                                       | 0         | 0        | 2         | 100        | -          | 100        | 1         | Major         | Own     |
| 9                                 | UCS6601IV    | Industrial Visit-V                               | 0         | 0        | 0         | 100        | -          | 100        | 1         | Major         | Own     |
| <b>TOTAL</b>                      |              |  | <b>16</b> | <b>2</b> | <b>12</b> | <b>640</b> | <b>260</b> | <b>900</b> | <b>25</b> |               |         |

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**IV YEAR: VII SEMESTER**

| S. NO.                            | SUBJECT CODE  | SUBJECT                           | L         | T        | P         | CIE        | ESE        | TOTAL      | C         | COURSE TYPE | FACULTY |
|-----------------------------------|---------------|-----------------------------------|-----------|----------|-----------|------------|------------|------------|-----------|-------------|---------|
| <b>THEORY</b>                     |               |                                   |           |          |           |            |            |            |           |             |         |
| 1                                 | UCS7001       | Data Mining Techniques            | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major       | Own     |
| 2                                 | UCS7002       | Fundamentals of Digital Forensics | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major       | Own     |
| 3                                 | UCS7003       | Enterprise Resource Planning      | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major       | Own     |
| 4                                 | UCS7004       | Introduction to Bioinformatics    | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major       | Own     |
| <b>PRACTICAL/TRAINING/PROJECT</b> |               |                                   |           |          |           |            |            |            |           |             |         |
| 5                                 | UCS7201       | Basic SCI Lab                     | 0         | 0        | 8         | 80         | 20         | 100        | 4         | Major       | Own     |
| 6                                 | UCS7701<br>PJ | Project Part- I                   | 0         | 0        | 12        | 80         | 20         | 100        | 6         | Major       | Own     |
| <b>TOTAL</b>                      |               |                                   | <b>12</b> | <b>4</b> | <b>20</b> | <b>320</b> | <b>280</b> | <b>600</b> | <b>26</b> |             |         |

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**IV YEAR: VIII SEMESTER**

| S. NO.                            | SUBJECT CODE | SUBJECT                               | L         | T        | P         | CIE        | ESE        | TOTAL      | C         | COURSE TYPE | FACULTY |
|-----------------------------------|--------------|---------------------------------------|-----------|----------|-----------|------------|------------|------------|-----------|-------------|---------|
| <b>THEORY</b>                     |              |                                       |           |          |           |            |            |            |           |             |         |
| 1                                 | UCS8001      | Big Data Technology                   | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major       | Own     |
| 2                                 | UCS8002      | Fundamentals of Soft Computing        | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major       | Own     |
| 3                                 | UCS8004      | Information for Emerging Technologies | 3         | 1        | 0         | 40         | 60         | 100        | 4         | Major       | Own     |
| 4                                 |              | Minor Elective - III                  | 4         | 0        | 0         | 40         | 60         | 100        | 4         | Major       | Other   |
| <b>PRACTICAL/TRAINING/PROJECT</b> |              |                                       |           |          |           |            |            |            |           |             |         |
| 5                                 | UCS8201      | Application for SCI Lab               | 0         | 0        | 8         | 80         | 20         | 100        | 4         | Major       | Own     |
| 6                                 | UCS8701 PJ   | Project Part- II                      | 0         | 0        | 12        | 80         | 20         | 100        | 6         | Major       | Own     |
| <b>TOTAL</b>                      |              |                                       | <b>13</b> | <b>3</b> | <b>20</b> | <b>320</b> | <b>280</b> | <b>600</b> | <b>26</b> |             |         |

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**LIST OF ELECTIVES**

**Skill Subjects**

| S. NO. | SUBJECT CODE | SUBJECT                    | SEMESTER |
|--------|--------------|----------------------------|----------|
| 1      | UCS1501SE    | Digital Aptitude and Logic | I        |
| 2      | UEG2504SE    | Functional English         | II       |
| 3      | UCS3501SE    | Fundamental of Animation   | III      |
| 4      | UCS4501SE    | Asp.Net                    | IV       |

**Elective Subjects**

| S. NO.                | SUBJECT CODE | SUBJECT                    | SEMESTER    |
|-----------------------|--------------|----------------------------|-------------|
| <b>Elective - I</b>   |              |                            |             |
| 1                     | UCS5104      | Agile Methodology          | V Semester  |
| 2                     | UCS5105      | Android App Development    |             |
| 3                     | UCS5106      | Data Compression           |             |
| <b>Elective - II</b>  |              |                            |             |
| 1                     | UCS6101      | Data Analysis and Handling | VI Semester |
| 2                     | UCS6102      | Human Computer Interaction |             |
| 3                     | UCS6124      | Machine Learning           |             |
| <b>Elective - III</b> |              |                            |             |
| 1                     | UCS6104      | Graph Theory               | VI Semester |
| 2                     | UCS6105      | Image Processing           |             |
| 3                     | UCS6125      | Cybernetics                |             |

**Minor Elective Subjects**

| S. NO.                     | SUBJECT CODE | SUBJECT                      | SEMESTER |
|----------------------------|--------------|------------------------------|----------|
| <b>Minor Elective - I</b>  |              |                              |          |
| 1                          | UCS2301      | IT Infrastructure Management | II       |
| 2                          | UCS2302      | Multimedia Systems           |          |
| 3                          | UCS2303      | Human Computer Interaction   |          |
| <b>Minor Elective - II</b> |              |                              |          |

|                             |         |  |      |
|-----------------------------|---------|--|------|
| 1                           | UCS4301 | Python and Applications                      | IV   |
| 2                           | UCS4302 | Emerging technologies in IT                  |      |
| 3                           | UCS4303 | Cyber Security System                        |      |
| <b>Minor Elective - III</b> |         |  |      |
| 1                           | UCS8302 | Database Management System                   | VIII |
| 2                           | UCS8303 | Internet and Networking                      |      |
| 3                           | UCS8304 | Artificial Intelligence and Machine Learning |      |