



**Integral University, Lucknow**  
**Department of Computer Application**  
**Study and Evaluation Scheme**

**Program: BCA**

**Semester IV**

| S. No.    | Course code | Course Title                                | Type of Paper | Period<br>Per hr/week/sem |   |   | Evaluation Scheme |     |       |     | Sub. Total | Credit | Total Credits | Attributes     |                   |                    |                 |                              |             |                     |
|-----------|-------------|---------------------------------------------|---------------|---------------------------|---|---|-------------------|-----|-------|-----|------------|--------|---------------|----------------|-------------------|--------------------|-----------------|------------------------------|-------------|---------------------|
|           |             |                                             |               | L                         | T | P | CT                | TA  | Total | ESE |            |        |               | Employ ability | Entrepre neurship | Skill Develop ment | Gender Equality | Environment & Sustainability | Human Value | Professional Ethics |
| THEORIES  |             |                                             |               |                           |   |   |                   |     |       |     |            |        |               |                |                   |                    |                 |                              |             |                     |
| 1.        | CA208       | Discrete Mathematical Structure             | Core          | 3                         | 1 | 0 | 40                | 20  | 60    | 40  | 100        | 3:1:0  | 4             | √              |                   | √                  |                 |                              |             |                     |
| 2.        | CA210       | Software Engineering and Project Management | Core          | 3                         | 1 | 0 | 40                | 20  | 60    | 40  | 100        | 3:1:0  | 4             | √              | √                 | √                  |                 |                              |             |                     |
| 3.        | CA212       | Computer Architecture and Microprocessor    | Core          | 3                         | 1 | 0 | 40                | 20  | 60    | 40  | 100        | 3:1:0  | 4             | √              |                   | √                  |                 |                              |             |                     |
| 4.        | CA213       | Principles of Operating System              | Core          | 3                         | 1 | 0 | 40                | 20  | 60    | 40  | 100        | 3:1:0  | 4             | √              | √                 | √                  |                 |                              |             |                     |
| 5.        | CA214       | JAVA Programming                            | Core          | 3                         | 1 | 0 | 40                | 20  | 60    | 40  | 100        | 3:1:0  | 4             | √              | √                 | √                  |                 |                              |             |                     |
| PRACTICAL |             |                                             |               |                           |   |   |                   |     |       |     |            |        |               |                |                   |                    |                 |                              |             |                     |
| 1.        | CA215       | Microprocessor Lab                          | Core          | 0                         | 0 | 3 | 40                | 20  | 60    | 40  | 100        | 0:0:2  | 2             | √              |                   | √                  |                 |                              |             |                     |
| 2.        | CA216       | JAVA Programming Lab                        | Core          | 0                         | 0 | 3 | 40                | 20  | 60    | 40  | 100        | 0:0:2  | 2             | √              | √                 | √                  |                 |                              |             |                     |
| 3.        | CA220       | Mini Project/Apprenticeship/ Internship     | Foundation    | 0                         | 0 | 2 | 40                | 20  | 60    | 40  | 100        | 0:0:1  | 1             |                |                   | √                  |                 |                              | √           |                     |
| Total     |             |                                             |               | 15                        | 5 | 8 | 320               | 160 | 480   | 320 | 800        | 15:5:5 | 25            |                |                   |                    |                 |                              |             |                     |