

# BCA Full Curriculum Structure

## First Year - Semester I

| Course Code | Course Title                           | Credit | Lec | Tut | Lab |
|-------------|----------------------------------------|--------|-----|-----|-----|
| CASC101     | Computer Fundamentals and Applications | 4      | 4   | -   | 4   |
| CASO102     | Society and Technology                 | 3      | 3   | -   | -   |
| CAEN103     | English I                              | 3      | 3   | 1   | -   |
| CAMT104     | Mathematics I                          | 3      | 3   | 1   | 1   |
| CASC105     | Digital Logic                          | 3      | 3   | -   | 2   |

## First Year - Semester II

| Course Code | Course Title                             | Credit | Lec | Tut | Lab |
|-------------|------------------------------------------|--------|-----|-----|-----|
| CASC151     | C Programming                            | 4      | 4   | 1   | 3   |
| CAAC152     | Financial Accounting                     | 3      | 3   | 1   | 1   |
| CAEN153     | English II                               | 3      | 3   | 1   | -   |
| CAMT154     | Mathematics II                           | 3      | 3   | 1   | 1   |
| CASC155     | Microprocessor and Computer Architecture | 3      | 3   | 1   | 2   |

## Second Year - Semester III

| Course Code | Course Title                  | Credit | Lec | Tut | Lab |
|-------------|-------------------------------|--------|-----|-----|-----|
| CACS201     | Data Structure and Algorithms | 3      | 3   | -   | 3   |
| CAST202     | Probability and Statistics    | 3      | 3   | 1   | 1   |
| CACS203     | System Analysis and Design    | 3      | 3   | 1   | -   |
| CACS204     | OOP in Java                   | 3      | 3   | 1   | 2   |
| CACS205     | Web Technology                | 3      | 3   | -   | 3   |

## Second Year - Semester IV

| Course Code | Course Title               | Credit | Lec | Tut | Lab |
|-------------|----------------------------|--------|-----|-----|-----|
| CACS251     | Operating System           | 3      | 3   | 1   | 2   |
| CACS252     | Numerical Methods          | 3      | 3   | 1   | 2   |
| CACS253     | Software Engineering       | 3      | 3   | 1   | -   |
| CACS254     | Scripting Language         | 3      | 3   | -   | 3   |
| CACS255     | Database Management System | 3      | 3   | 1   | 2   |

|         |           |   |   |   |   |
|---------|-----------|---|---|---|---|
| CAPj256 | Project I | 2 | - | - | 4 |
|---------|-----------|---|---|---|---|

### Third Year - Semester V

| Course Code | Course Title                    | Credit | Lec | Tut | Lab |
|-------------|---------------------------------|--------|-----|-----|-----|
| CACS301     | MIS and e-Business              | 3      | 3   | -   | 2   |
| CACS302     | DotNet Technology               | 3      | 3   | -   | 3   |
| CACS303     | Computer Networking             | 3      | 3   | -   | 2   |
| CAMG304     | Introduction to Management      | 3      | 3   | 1   | -   |
| CACS305     | Computer Graphics and Animation | 3      | 3   | 1   | 2   |

### Third Year - Semester VI

| Course Code | Course Title              | Credit | Lec | Tut | Lab |
|-------------|---------------------------|--------|-----|-----|-----|
| CACS351     | Mobile Programming        | 3      | 3   | -   | 3   |
| CACS352     | Distributed System        | 3      | 3   | 1   | -   |
| CACS353     | Applied Economics         | 3      | 3   | 1   | -   |
| CACS354     | Advanced Java Programming | 3      | 3   | -   | 3   |
| CACS355     | Network Programming       | 3      | 3   | -   | 2   |
| CAPj356     | Project II                | 2      | -   | -   | 4   |

### Fourth Year - Semester VII

| Course Code | Course Title                      | Credit | Lec | Tut | Lab |
|-------------|-----------------------------------|--------|-----|-----|-----|
| CACS401     | Cyber Law and Professional Ethics | 3      | 3   | 1   | -   |
| CACS402     | Cloud Computing                   | 3      | 3   | -   | 3   |
| CAIN403     | Internship                        | 3      | -   | -   | -   |
| N/A         | Elective I                        | 3      | 3   | -   | -   |
| N/A         | Elective II                       | 3      | 3   | -   | -   |

### Fourth Year - Semester VIII

| Course Code | Course Title        | Credit | Lec | Tut | Lab |
|-------------|---------------------|--------|-----|-----|-----|
| CAOR451     | Operations Research | 3      | 3   | 1   | -   |
| CAPj452     | Project III         | 6      | -   | -   | 12  |
| N/A         | Elective III        | 3      | 3   | -   | -   |
| N/A         | Elective IV         | 3      | 3   | -   | -   |