# Gondwana University, Gadchiroli



# BCA

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## Model Curriculum for UG Degree in

- **Bachelor in Computer Application (BCA)**
- **Bachelor in Computer Application (Honours) &**
- **Bachelor in Computer Application (Honours with Research)**

## IT and Application Board

# Semester wise Structure and Curriculum for UG Course in

# Bachelor in Computer Application (BCA)

## SEMESTER I

| Sr. No. | Course Code | Course Title | L | T | P | Credit | % of Assessment | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | University Assessment (UA) | College Assessment (CA) | Total (UA+CA) | Min. Passing (UA+CA) | |
| | | | | | | | | | | (%) | Marks |
| 1 | CC101 | Mathematics Foundations to Computer Science | 3 | 0 | 0 | 3 | 60 | 15 | 75 | 40% | 30 |
| 2 | CC102 | Basic of Computer Architecture | 3 | 0 | 0 | 3 | 60 | 15 | 75 | 40% | 30 |
| | | Lab | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 50% | 25 |
| 3 | SEC101 | Problem Solving Techniques | 3 | 0 | 0 | 3 | 60 | 15 | 75 | 40% | 30 |
| | | Lab | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 50% | 25 |
| 4 | AEC101 | General English – Soft Skills | 1 | 1 | 0 | 2 | 40 | 10 | 50 | 40% | 20 |
| 5 | MDE101 | Indian Knowledge System[1] | 2 | 0 | 0 | 2 | 40 | 10 | 50 | 40% | 20 |
| 6 | VAC101 | Environmental Science and sustainability | 2 | 0 | 0 | 2 | - | 50 | 50 | 50% | 25 |
| 7 | AEC102 | **Elective:** Additional Course[2] – Indian or Foreign Language | 1 | 1 | 0 | 2 | - | 50 | 50 | 50% | 25 |
| 8 | SEC102 | Seminar | 1 | - | - | 1 | - | 25 | 25 | 50% | 13 |
| | **Total** | | 16 | 2 | 8 | 22 | 320 | 230 | 550 | | |
| | **Note: For University Assessment (UA), College Assessment (CA) Evaluation Rules, Practical Assessment and for Question Paper Pattern refer Appendix 2 to 4** | | | | | | | | | | |

**Note**: 1. **Indian Knowledge System**: Indian Culture and Civilization Indian Vision for Human Society Indian Science Indian Town Planning and Architecture Indian Mathematics and Astronomy Indian Aesthetics Indian Health, In IT sector, Wellness.

2. **Additional Course**: Hindi or
   If a student selects another reginal Indian or foreign language: Student must complete this language course on Swayam or NPTEL and submit the necessary documentation/result before the start of university exam.

# Bachelor in Computer Application (BCA)

## SEMESTER II

| Sr. No. | Course Code | Course Title | L | T | P | Credit | % of Assessment | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | UA | CA | Total (UA+CA) | Min. Passing (UA+CA) | |
| | | | | | | | | | | (%) | Marks |
| 1 | CC103 | Operating System & Linux | 3 | 0 | 0 | 3 | 60 | 15 | 75 | 40% | 30 |
| 2 | CC104 | Programming in 'C' | 3 | 0 | | 3 | 60 | 15 | 75 | 40% | 30 |
| | | Lab | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 50% | 25 |
| 3 | CC105 | Database Management System | 3 | 0 | 0 | 3 | 60 | 15 | 75 | 40% | 30 |
| | | Lab | 0 | 0 | 2 | 1 | 15 | 10 | 25 | 50% | 13 |
| 4 | SEC103 | E-Commerce and Web Design | 3 | 0 | 0 | 3 | 60 | 15 | 75 | 40% | 30 |
| | | Lab | 0 | 0 | 4 | 2 | 30 | 20 | 50 | 50% | 25 |
| 5 | VAC102 | Indian Constitution | 2 | 0 | 0 | 2 | - | 50 | 50 | 50% | 25 |
| 6 | AEC103 | **Elective:** Additional Course[1] - Indian or Foreign Language | 1 | 1 | 0 | 2 | 40 | 10 | 50 | 50% | 25 |
| 7 | SEC104 | Seminar | 1 | - | 0 | 1 | - | 25 | 25 | 50% | 13 |
| | | **Total** | 16 | 1 | 10 | 22 | 355 | 195 | 550 | | |

**Note 1: Indian Languages**: Hindi

If a student selects another reginal Indian or foreign language: Student must complete this language course on Swayam or NPTEL and submit the necessary documentation/result before the start of university exam.