

# BEARYS INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka  
Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka  
(Accredited by NAAC)

Lands End, Innoli, Near Mangalore University, Mangaluru, Karnataka - 574199

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Table 3.3.2 (a) PO Attainment**

| PO ATTAINMENT            |                                             |      |      |      |      |      |      |     |     |      |      |      |      |
|--------------------------|---------------------------------------------|------|------|------|------|------|------|-----|-----|------|------|------|------|
| COURSEWISE PO ATTAINMENT |                                             |      |      |      |      |      |      |     |     |      |      |      |      |
| CODE                     | SUBJECT NAME                                | PO1  | PO2  | PO3  | PO4  | PO5  | PO6  | PO7 | PO8 | PO9  | PO10 | PO11 | PO12 |
| C101                     | CALCULUS AND LINEAR ALGEBRA                 | 2.36 | 2.16 | -    | 2.10 | -    | -    | -   | -   | -    | -    | -    | -    |
| C102                     | ENGINEERING PHYSICS                         | 2.36 | 2.36 | -    | -    | -    | -    | -   | -   | -    | -    | -    | -    |
| C103                     | BASIC ELECTRICAL ENGINEERING                | 2.20 | 1.89 | 2.36 | 2.36 | 2.05 | 2.36 | -   | -   | -    | -    | -    | -    |
| C104                     | ELEMENTS OF CIVIL ENGINEERING AND MECHANICS | 2.35 | 2.17 | 2.26 | -    | 2.71 | -    | -   | -   | -    | -    | -    | -    |
| C105                     | ENGINEERING GRAPHICS                        | 2.20 | 1.89 | 1.89 | -    | -    | -    | -   | -   | -    | -    | -    | 2.05 |
| C106                     | ENGINEERING PHYSICS LABORATORY              | 3.00 | 3.00 | -    | -    | -    | -    | -   | -   | -    | -    | -    | -    |
| C107                     | BASIC ELECTRICAL ENGINEERING LAB            | 2.50 | 2.23 | 1.79 | 2.01 | 2.23 | -    | -   | -   | -    | -    | -    | -    |
| C108                     | TECHNICAL ENGLISH 1                         | 2.20 | -    | -    | -    | -    | -    | -   | -   | 2.20 | 2.20 | 2.20 | 2.20 |

# BEARYS INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka  
Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka  
(Accredited by NAAC)

Lands End, Innoli, Near Mangalore University, Mangaluru, Karnataka - 574199

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

|      |                                                   |      |      |      |      |      |   |   |   |      |      |      |      |
|------|---------------------------------------------------|------|------|------|------|------|---|---|---|------|------|------|------|
| C109 | ADVANCED CALCULUS AND NUMERICAL METHODS           | 2.36 | 2.36 | 1.89 | -    | -    | - | - | - | -    | -    | -    | -    |
| C110 | ENGINEERING CHEMISTRY                             | 2.54 | 2.54 | -    | -    | -    | - | - | - | -    | -    | -    | -    |
| C111 | C PROGRAMING FOR PROBLEM SOLVING                  | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | - | - | - | -    | -    | -    | -    |
| C112 | BASIC ELECTRONICS                                 | 2.07 | 1.93 | 1.84 | 1.93 | 2.07 | - | - | - | -    | -    | -    | -    |
| C113 | ELEMENTS OF MECHANICAL ENGINEERING                | 2.36 | 2.36 | -    | -    | -    | - | - | - | -    | -    | -    | -    |
| C114 | ENGINEERING CHEMISTRY LAB                         | 3.00 | 2.00 | -    | -    | -    | - | - | - | -    | -    | -    | -    |
| C115 | C PROGRAMING LAB                                  | 3.00 | 3.00 | 2.50 | 2.50 | 3.00 | - | - | - | -    | -    | -    | 3.00 |
| C116 | TECHNICAL ENGLISH-2                               | 2.24 | -    | -    | -    | -    | - | - | - | 2.24 | 2.24 | 2.24 | 2.24 |
| C201 | TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICALS | 2.38 | 2.22 | 2.06 | 2.22 | -    | - | - | - | -    | -    | -    | 2.06 |
| C202 | DATA STRUCTURES AND APPLICATIONS                  | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | - | - | - | -    | -    | -    | 1.94 |
| C203 | ANALOG AND DIGITAL ELECTRONICS                    | 2.15 | 2.15 | 2.30 | 1.99 | 2.30 | - | - | - | -    | -    | -    | 2.15 |
| C204 | COMPUTER ORGANIZATION                             | 2.35 | 2.35 | 2.35 | 2.35 | 2.35 | - | - | - | -    | -    | -    | -    |

# BEARYS INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka  
Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka  
(Accredited by NAAC)

Lands End, Innoli, Near Mangalore University, Mangaluru, Karnataka - 574199

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

|      |                                                       |      |      |      |      |      |      |   |      |   |      |      |      |
|------|-------------------------------------------------------|------|------|------|------|------|------|---|------|---|------|------|------|
| C205 | SOFTWARE ENGINEERING                                  | 2.81 | 2.57 | 2.34 | -    | 2.81 | 2.81 | - | 2.81 | - | 2.43 | 2.81 | 2.57 |
| C206 | DISCRETE MATHEMATICAL STRUCTURES                      | 2.70 | 2.40 | 2.40 | 2.16 | 2.70 | -    | - | -    | - | -    | -    | 2.70 |
| C207 | ANALOG AND DIGITAL ELECTRONICS LABORATORY             | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | -    | - | -    | - | -    | -    | -    |
| C208 | DATA STRUCTURES LABORATORY                            | 2.68 | 2.68 | 2.68 | 2.68 | 2.23 | -    | - | -    | - | -    | -    | -    |
| C209 | CONSTITUTION OF INDIA, PROF. ETHICS AND CYBER LAW     | 2.36 | 2.10 | 2.36 | -    | 2.36 | 2.36 | - | 1.97 | - | -    | -    | 1.89 |
| C210 | COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS | 2.45 | 2.45 | 2.45 | 2.45 | -    | -    | - | -    | - | -    | -    | 2.28 |
| C211 | DESIGN AND ANALYSIS OF ALGORITHMS                     | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | -    | - | -    | - | -    | -    | -    |
| C212 | OPERATING SYSTEMS                                     | 2.11 | 2.11 | 1.93 | -    | 2.11 | -    | - | -    | - | -    | -    | 2.11 |
| C213 | MICROCONTROLLER AND EMBEDDED SYSTEMS                  | 2.02 | 2.02 | 2.02 | -    | 2.02 | -    | - | -    | - | -    | -    | -    |
| C214 | OBJECT ORIENTED CONCEPTS                              | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | -    | - | -    | - | -    | -    | -    |
| C215 | DATA COMMUNICATION                                    | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | -    | - | -    | - | -    | -    | -    |

# BEARYS INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka  
Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka  
(Accredited by NAAC)

Lands End, Innoli, Near Mangalore University, Mangaluru, Karnataka - 574199

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

|      |                                                 |      |      |      |      |      |   |   |      |      |      |   |      |
|------|-------------------------------------------------|------|------|------|------|------|---|---|------|------|------|---|------|
| C216 | DESIGN AND ANALYSIS OF ALGORITHM LABORATORY     | 3.00 | 3.00 | 2.00 | 2.50 | 2.67 | - | - | -    | -    | -    | - | -    |
| C217 | MICROCONTROLLER AND EMBEDDED SYSTEMS LABORATORY | 2.50 | -    | 3.00 | -    | 3.00 | - | - | -    | -    | -    | - | -    |
| C218 | AADALITHA KANNADA/ VYAVAHARIKA KANNADA          | 2.99 | -    | -    | -    | -    | - | - | 1.99 | 1.99 | 2.99 | - | -    |
| C301 | MANAGEMENT, ENTREPRENEUR. FOR IT INDUS.         | 2.81 | 2.18 | 2.34 | -    | 2.81 | - | - | -    | -    | -    | - | -    |
| C302 | COMPUTER NETWORKS AND SECURITY                  | 2.10 | 1.93 | -    | -    | 1.87 | - | - | -    | -    | -    | - | 1.87 |
| C303 | DATA BASE MANAGEMENT SYSTEM                     | 2.17 | 2.17 | -    | -    | 2.17 | - | - | -    | -    | -    | - | -    |
| C304 | AUTOMATA THEORY AND COMPUTABILITY               | 2.52 | 2.10 | 2.52 | 2.52 | -    | - | - | -    | -    | -    | - | 2.10 |
| C305 | APPLICATION DEVELOPMENT USING PYTHON            | 2.20 | 2.05 | -    | -    | 2.36 | - | - | -    | -    | -    | - | -    |
| C306 | UNIX PROGRAMMING                                | 2.57 | 2.34 | 2.18 | 2.34 | 2.57 | - | - | -    | -    | -    | - | -    |
| C307 | COMPUTER NETWORK LABORATORY                     | 2.50 | 2.00 | 2.00 | 2.00 | 3.00 | - | - | -    | -    | -    | - | -    |
| C308 | DBMS LABORATORY WITH MINI PROJECT               | 2.33 | 2.33 | 2.67 | 2.33 | 3.00 | - | - | -    | -    | -    | - | -    |

# BEARYS INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka  
Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka  
(Accredited by NAAC)

Lands End, Innoli, Near Mangalore University, Mangaluru, Karnataka - 574199

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

|      |                                                |      |      |      |      |      |      |      |   |   |   |   |   |
|------|------------------------------------------------|------|------|------|------|------|------|------|---|---|---|---|---|
| C309 | ENVIRONMENTAL STUDIES                          | 2.25 | 2.25 | 2.25 | 2.25 | 2.75 | 2.50 | 3.00 | - | - | - | - | - |
| C310 | SYSTEM SOFTWARES & COMPILERS                   | 2.68 | 2.50 | 2.50 | 2.32 | 2.50 | -    | -    | - | - | - | - | - |
| C311 | COMPUTER GRAPHICS AND VISUALIZATION            | 2.00 | 2.50 | 2.50 | 2.00 | 2.67 | -    | -    | - | - | - | - | - |
| C312 | WEB TECHNOLOGY AND ITS APPLICATIONS            | 3.00 | 2.20 | 2.40 | 2.20 | 2.00 | -    | -    | - | - | - | - | - |
| C313 | OBJECT ORIENTED MODELLING AND DESIGN           | 2.07 | 2.13 | 2.33 | -    | 2.33 | -    | -    | - | - | - | - | - |
| C314 | OCCUPATIONAL HEALTH AND SAFETY                 | 2.20 | 2.00 | 2.20 | 2.00 | 2.20 | -    | -    | - | - | - | - | - |
| C315 | SYSTEM SOFTWARE LABORATORY                     | 3.00 | 2.50 | 2.50 | 2.50 | 2.50 | -    | -    | - | - | - | - | - |
| C316 | COMPUTER GRAPHICS LABORATORY WITH MINI PROJECT | 2.67 | 3.00 | 2.50 | 2.00 | 2.00 | -    | -    | - | - | - | - | - |
| C317 | MOBILE APPLICATION DEVELOPMENT                 | 2.40 | 2.00 | 3.00 | 2.00 | 3.00 | -    | -    | - | - | - | - | - |
| C401 | ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING   | 2.39 | 2.39 | 2.39 | 2.39 | 2.39 | -    | -    | - | - | - | - | - |
| C402 | BIG DATA AND ANALYTICS                         | 2.17 | 2.17 | 2.17 | 2.17 | 2.02 | -    | -    | - | - | - | - | - |

# BEARYS INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka  
Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka  
(Accredited by NAAC)

Lands End, Innoli, Near Mangalore University, Mangaluru, Karnataka - 574199

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

|            |                                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|------------|--------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| C403       | USER INTERFACE DESIGN                            | 2.68 | 2.23 | 2.46 | 2.08 | 2.08 | -    | -    | -    | -    | -    | -    | -    |
| C404       | DIGITAL IMAGE PROCESSING                         | 2.18 | 2.18 | 2.18 | 2.18 | -    | -    | -    | -    | -    | -    | -    | -    |
| C405       | ENERGY ENVIRONMENT                               | 2.03 | 2.03 | 2.26 | -    | -    | 2.49 | 2.71 | 2.41 | 2.71 | -    | -    | 2.03 |
| C406       | ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING LAB | 2.50 | 2.50 | 3.00 | 2.50 | 3.00 | -    | -    | -    | -    | -    | -    | -    |
| C407       | PROJECT WORK PHASE – 1                           | 3.00 | 2.60 | 3.00 | 2.25 | 3.00 | 2.33 | 2.33 | 2.60 | 3.00 | 2.50 | 3.00 | 2.33 |
| C408       | INTERNET OF THINGS                               | 2.52 | 1.96 | 2.52 | 2.52 | 2.31 | 2.10 | 2.52 | -    | -    | -    | -    | -    |
| C409       | STORAGE AREA NETWORKS                            | 2.68 | 2.01 | 2.01 | 2.23 | 2.23 | -    | -    | -    | -    | -    | -    | -    |
| C410       | PROJECT WORK PHASE - 2                           | 3.00 | 2.40 | 3.00 | 2.50 | 3.00 | 2.40 | 2.33 | 3.00 | 3.00 | 2.33 | 3.00 | 2.33 |
| C411       | TECHNICAL SEMINAR                                | 3.00 | 2.60 | 2.00 | 2.40 | 3.00 | 2.00 | 2.00 | 2.25 | 2.00 | 3.00 | 2.00 | 2.00 |
| C412       | INTERNSHIP                                       | 3.00 | 2.20 | 2.60 | 2.20 | 3.00 | 2.00 | 2.00 | 3.00 | 2.50 | 2.50 | 2.00 | 2.33 |
| DIRECT     |                                                  | 2.45 | 2.27 | 2.32 | 2.24 | 2.45 | 2.33 | 2.41 | 2.50 | 2.46 | 2.52 | 2.46 | 2.22 |
| INDIRECT   |                                                  | 2.52 | 2.50 | 2.55 | 2.47 | 2.52 | 2.52 | 2.54 | 2.59 | 2.52 | 2.58 | 2.43 | 2.58 |
| DIRECT 80% |                                                  | 1.96 | 1.82 | 1.86 | 1.79 | 1.96 | 1.87 | 1.93 | 2.00 | 1.96 | 2.02 | 1.97 | 1.78 |

## BEARYS INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka  
Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka  
(Accredited by NAAC)

Lands End, Innoli, Near Mangalore University, Mangaluru, Karnataka - 574199

---

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

|               |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|
| INDIRECT 20%  | 0.50 | 0.50 | 0.51 | 0.49 | 0.50 | 0.50 | 0.51 | 0.52 | 0.50 | 0.52 | 0.49 | 0.52 |
| PO ATTAINMENT | 2.47 | 2.32 | 2.37 | 2.28 | 2.46 | 2.37 | 2.44 | 2.52 | 2.47 | 2.54 | 2.46 | 2.29 |