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Bsc Computer Science & Eng.

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Entry Requirement

Course Structure

Year One Semester One

| Course No. | Subject | T | P | C |
|------------|--|---|---|---|
| CE 141 | Basic French I | 1 | 1 | 1 |
| CE 151 | Applied Electricity | 2 | 2 | 3 |
| CE 155 | Technical Drawing | 1 | 3 | 2 |
| CE 157 | Communications Skills I | 2 | 1 | 2 |
| CE 163 | Introduction to Programming with C++ | 1 | 4 | 2 |
| CE 167 | Basic Mechanics | 2 | 2 | 3 |
| CE 169 | Linear Algebra | 2 | 2 | 3 |
| CE 171 | Introduction to Computer Science and Engineering | 2 | 2 | 3 |

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Feeds

Totals

13 17 19

Year One Semester Two

| Course Nº. | Subject | T | P | C |
|------------|--|----|----|----|
| CE 142 | Basic French II | 1 | 1 | 1 |
| CE 156 | Engineering Drawing | 2 | 2 | 3 |
| CE 158 | Communication Skills II | 2 | 1 | 2 |
| CE 162 | Circuit Theory | 2 | 2 | 3 |
| CE 164 | Basic Electronics | 2 | 2 | 3 |
| CE 166 | Calculus | 2 | 2 | 3 |
| CE 172 | Computer Architecture and Organization | 2 | 2 | 3 |
| Totals | | 13 | 12 | 18 |

Year Two Semester One

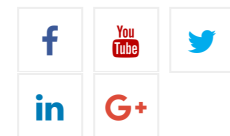
| Course Nº | Subject | T | P | C |
|-----------|--------------------------------------|----|----|----|
| CE 251 | Literature in English | 1 | 1 | 1 |
| CE 261 | Object-Oriented Programming | 2 | 2 | 3 |
| CE 265 | Differential Equations | 2 | 2 | 3 |
| CE 271 | Microprocessors and Microcontrollers | 2 | 2 | 3 |
| CE 273 | Computer Graphics | 2 | 1 | 2 |
| CE 275 | Discrete Mathematics | 2 | 1 | 2 |
| CE 277 | Web Programming | 1 | 2 | 2 |
| CE 279 | Database Systems | 1 | 2 | 2 |
| Totals | | 13 | 15 | 18 |

Year Two Semester Two

| Course Nº | Subject | T | P | C |
|-----------|---------|---|---|---|
|-----------|---------|---|---|---|

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| | | | | |
|---------|--|----|----|----|
| CE 252 | Literature in English II | 1 | 1 | 1 |
| CE 256* | Fieldtrip and Technical Report Writing I | 1 | 1 | 1 |
| CE 260 | Mathematical Analysis | 2 | 2 | 3 |
| CE 272 | Signals and Systems | 2 | 1 | 2 |
| CE 262 | Digital Electronics | 2 | 1 | 2 |
| CE 274 | Programming with Java | 1 | 4 | 2 |
| CE 276 | Software Engineering | 2 | 2 | 3 |
| CE 278 | Embedded System Design I | 2 | 1 | 2 |
| CE 280 | Advanced Database Systems | 1 | 2 | 2 |
| Totals | | 14 | 15 | 18 |

Year Three Semester One

| Course Nº | Subject | T | P | C |
|-----------|-------------------------------------|----|----|----|
| CE 361 | Probability and Statistics | 2 | 1 | 2 |
| CE 363 | Numerical Analysis | 2 | 1 | 2 |
| CE 365 | Environmental Management | 2 | 2 | 3 |
| CE 371 | Embedded System Design II | 2 | 1 | 2 |
| CE 373 | Data Structure and Algorithms | 2 | 2 | 3 |
| CE 375 | Operating Systems | 2 | 2 | 3 |
| Ce 377 | Software Development and Management | 2 | 1 | 2 |
| CE 379 | Control Systems | 2 | 1 | 2 |
| CE 381 | Computer Lab Work I | 0 | 4 | 1 |
| Totals | | 16 | 15 | 20 |

Year Three Semester Two

| Course Nº | Subject | T | P | C |
|-----------|------------------|---|---|---|
| CE 352 | Public Relations | 2 | 0 | 2 |

| | | | | |
|---------------|---|----|----|----|
| CE 356* | Fieldtrip and Technical Report Writing II | 0 | 4 | 1 |
| CE 372 | Information Security | 2 | 1 | 2 |
| CE 374 | Data Communication and Computer Networks | 2 | 2 | 3 |
| CE 376 | Digital Hardware Design | 2 | 1 | 2 |
| CE 378 | Simulation and Modelling | 2 | 2 | 3 |
| CE 380 | Programming with C# | 1 | 4 | 2 |
| CE 382 | Human Computer Interaction | 2 | 2 | 3 |
| CE 348 | Computer Lab Work II | 0 | 4 | 1 |
| Totals | | 13 | 20 | 19 |

Year Four Semester One

| Course Nº | Subject | T | P | C |
|---------------|---------------------------------------|----|----|----|
| CE 451 | Research Methods ad Ethics in Science | 2 | 0 | 2 |
| CE 459 | Operations Research | 2 | 2 | 3 |
| CE 461 | Principles of Economics | 2 | 0 | 2 |
| CE 463 | Digital Signal and Image Processing | 2 | 2 | 3 |
| CE 465 | Artificial Intelligence | 2 | 1 | 2 |
| CE 471 | Industrial Electronics | 2 | 2 | 3 |
| CE 473 | Logics of Computer Science | 2 | 2 | 3 |
| CE 475 | Network Principles | 2 | 1 | 2 |
| Totals | | 16 | 11 | 20 |

Year Four Semester Two

| Course Nº | Subject | T | P | C |
|-----------|--------------------|---|----|---|
| CE 450 | Project Work | 0 | 12 | 4 |
| CE 452 | Colloquium/Seminar | 1 | 1 | 1 |

| | | | | |
|---------------|---------------------------------|-----------|-----------|-----------|
| CE 454 | Business Entrepreneurship | 2 | 0 | 2 |
| CE 460 | Corporate Social Responsibility | 2 | 0 | 2 |
| CE 464 | Robotics | 2 | 2 | 3 |
| CE 470 | Compiler Design | 2 | 2 | 3 |
| CE 472 | Information Theory | 2 | 2 | 3 |
| Totals | | 11 | 19 | 18 |

[Detailed Course Structure](#)

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