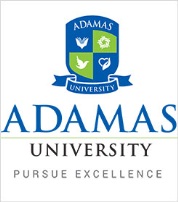
**ADAMAS UNIVERSITY**

**SCHOOL OF ENGINEERING**

**AND**

**TECHNOLOGY**

**DEPARTMANT OF COMPUTER SCIENCE**

**AND**

**ENGINEERING**

**Course Structure & Syllabus**

**Of**

**Bachelor of Computer Application (BCA) Programme**

**(W.e.f AY 2020 – 2021)**

**SoET 2.0 (Engineering+)**

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| **ADAMAS UNIVERSITY**  **SCHOOL OF ENGINEERING & TECHNOLOGY**  **UG PROGRAM: Bachelor of Computer Application (BCA)**  **SEMESTER I** | | | | | | | | |
| **Sl. No** | **Type of Course** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Contact**  **Hrs./Wk.** | **Credits** |
| 1 | Theory | MTH11221 | Mathematics-I | 3 | 1 | 0 | 4 | 4 |
| 2 | Theory | CSE11401 | Introduction to Programming | 3 | 0 | 0 | 3 | 3 |
| 3 | Theory | ENG11055 | English Communication | 3 | 0 | 0 | 3 | 3 |
| 4 | Theory | CSE11402 | Computer Fundamentals | 3 | 0 | 0 | 3 | 3 |
| 5 | Theory | EVS11103 | Environmental Science | 3 | 0 | 0 | 3 | 3 |
| 6 | Practical | CSE12403 | Programming Lab | 0 | 0 | 3 | 3 | 2 |
| **Total** | | | | **15** | **1** | **3** | **19** | **18** |

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| **ADAMAS UNIVERSITY**  **SCHOOL OF ENGINEERING & TECHNOLOGY**  **UG PROGRAM: Bachelor of Computer Application (BCA)**  **SEMESTER II** | | | | | | | | |
| **Sl. No** | **Type of Course** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Contact**  **Hrs./Wk.** | **Credits** |
| 1 | Theory | MTH11507 | Mathematics-II | 3 | 1 | 0 | 4 | 4 |
| 2 | Theory | CSE11404 | Programming & Data Structures | 3 | 0 | 0 | 3 | 3 |
| 3 | Theory | ECE11501 | Digital Electronics | 3 | 0 | 0 | 3 | 3 |
| 4 | Theory | CSE11405 | Design of Logic Circuits | 3 | 0 | 0 | 3 | 3 |
| 5 | Theory | CSE11406 | Web Designing | 3 | 0 | 0 | 3 | 3 |
| 6 | Practical | CSE12407 | Data Structures Lab | 0 | 0 | 3 | 3 | 2 |
| 7 | Practical | ECE12502 | Digital Electronics Lab | 0 | 0 | 3 | 3 | 2 |
| 8 | Practical | CSE12408 | Web Designing Lab | 0 | 0 | 3 | 3 | 2 |
| **Total** | | | | **15** | **1** | **9** | **25** | **22** |

**Total Credits (First Year): 40**

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| **ADAMAS UNIVERSITY**  **SCHOOL OF ENGINEERING & TECHNOLOGY**  **UG PROGRAM: Bachelor of Computer Application (BCA)**  **SEMESTER III** | | | | | | | | | |
| **Sl. No** | **Type of Course** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Contact**  **Hrs./Wk.** | **Credits** |
| 1 | Theory | ECS32161 | Object Oriented Programming with JAVA | 3 | 0 | 0 | 3 | 3 |
| 2 | Theory | ECS32163 | Programming in Python | 3 | 0 | 0 | 3 | 3 |
| 3 | Theory | ECS32165 | Computer Organization & Architecture | 3 | 0 | 0 | 3 | 3 |
| 4 | Theory | ECS32167 | Database Management System | 3 | 0 | 0 | 3 | 3 |
| 5 | Practical | ECS32261 | Object Oriented Programming Lab | 0 | 0 | 3 | 3 | 2 |
| 6 | Practical | ECS32263 | Python Programming Lab | 0 | 0 | 3 | 3 | 2 |
| 7 | Practical | ECS32265 | Computer Organization Lab | 0 | 0 | 3 | 3 | 2 |
| 8 | Practical | ECS32267 | Database Management System Lab | 0 | 0 | 3 | 3 | 2 |
| **Total** | | | | **12** | **0** | **12** | **24** | **20** |

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| **ADAMAS UNIVERSITY**  **SCHOOL OF ENGINEERING & TECHNOLOGY**  **UG PROGRAM: Bachelor of Computer Application (BCA)**  **SEMESTER IV** | | | | | | | | |
| **Sl. No** | **Type of Course** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Contact**  **Hrs./Wk.** | **Credits** |
| 1 | Theory | EEC32102 | Data Communication & Computer Network | 3 | 0 | 0 | 3 | 3 |
| 2 | Theory | ECS32162 | Algorithm Design | 3 | 0 | 0 | 3 | 3 |
| 3 | Theory | ECS32164 | Operating System | 3 | 0 | 0 | 3 | 3 |
| 4 | Theory | ECS32166 | Introduction to Computer Graphics | 3 | 0 | 0 | 3 | 3 |
| 5 | Practical | EEC32202 | Computer Network Lab | 0 | 0 | 3 | 3 | 2 |
| 6 | Practical | ECS32262 | Algorithm Design Lab | 0 | 0 | 3 | 3 | 2 |
| 7 | Practical | ECS32264 | Operating System Lab | 0 | 0 | 3 | 3 | 2 |
| 8 | Practical | ECS32266 | Computer Graphics Lab | 0 | 0 | 3 | 3 | 2 |
| **Total** | | | | **12** | **0** | **12** | **24** | **20** |

**Total Credits (Second Year): 40**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ADAMAS UNIVERSITY**  **SCHOOL OF ENGINEERING & TECHNOLOGY**  **UG PROGRAM: Bachelor of Computer Application (BCA)**  **SEMESTER V** | | | | | | | | |
| **Sl. No** | **Type of Course** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Contact**  **Hrs./Wk.** | **Credits** |
| 1 | Theory | HEC43181 | Financial Accounting | 3 | 0 | 0 | 3 | 3 |
| 2 | Theory | MBA33141 | Management Information System | 3 | 0 | 0 | 3 | 3 |
| 3 | Theory | ECS33161 | Artificial Intelligence | 3 | 0 | 0 | 3 | 3 |
| 4 | Theory | ECS33163 | Software Engineering | 3 | 0 | 0 | 3 | 3 |
| 5 | Theory | ECS33177 | Business Communication | 3 | 0 | 0 | 3 | 3 |
| 6 | Practical | ECS33261 | Artificial Intelligence Lab | 0 | 0 | 3 | 3 | 2 |
| 7 | Practical | ECS33263 | Software Engineering Lab | 0 | 0 | 3 | 3 | 2 |
| 8 | Project | ECS33461 | Project-I | - | - | - | - | 4 |
| **Total** | | | | **15** | **0** | **06** | **21** | **23** |

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| **ADAMAS UNIVERSITY**  **SCHOOL OF ENGINEERING & TECHNOLOGY**  **UG PROGRAM: Bachelor of Computer Application (BCA)**  **SEMESTER VI** | | | | | | | | |
| **Sl. No** | **Type of Course** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Contact**  **Hrs./Wk.** | **Credits** |
| 1 | Theory | MBA32141 | E-commerce & Applications | 3 | 0 | 0 | 3 | 3 |
| 2 | Theory | ECS33162 | Cyber Security | 3 | 0 | 0 | 3 | 3 |
| 3 | Viva | ECS33562 | Comprehensive Viva Voce | - | - | - | - | 3 |
| 4 | Project | ECS33462 | Project-II | - | - | - | - | 8 |
| **Total** | | | | **06** | **0** | **0** | **06** | **17** |

**Total Credits (Third Year): 40**

**Total Credits (Over Three Years):40 + 40 + 40 = 120**