****

**ADAMAS UNIVERSITY**

**SCHOOL OF ENGINEERING**

**AND**

**TECHNOLOGY**

**DEPARTMENT**

**OF**

**COMPUTER SCIENCE AND ENGINEERING**

**Course Structure & Syllabus**

**For**

**Master of Technology (M.Tech)**

**In**

**Computer Science & Engineering**

**W.e.f. AY 2020-21**

**SoET 2.0**

**(Engineering +)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ADAMAS UNIVERSITY**  **SCHOOL OF ENGINEERING & TECHNOLOGY**  **PG PROGRAM: Master of Technology (M.Tech) (CSE)**  **SEMESTER I** | | | | | | | | |
| **Sl. No** | **Type of Course** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Contact**  **Hrs./Wk.** | **Credits** |
| 1 | Theory | CSE21801 | Foundation of Computing Science | 3 | 1 | 0 | 4 | 4 |
| 2 | Theory | CSE21802 | Advanced Algorithms | 3 | 1 | 0 | 4 | 4 |
| 3 | Theory |  | Elective -I | 3 | 0 | 0 | 3 | 3 |
| 4 | Theory |  | Elective -II | 3 | 0 | 0 | 3 | 3 |
| 5 | Seminar | CSE25805 | Seminar -I | 0 | 2 | 0 | 2 | 2 |
| 6 | Practical | CSE22806 | Computing Lab -I | 0 | 0 | 3 | 3 | 2 |
| **Total** | | | | **12** | **4** | **3** | **19** | **18** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ADAMAS UNIVERSITY**  **SCHOOL OF ENGINEERING & TECHNOLOGY**  **PG PROGRAM: Master of Technology (M.Tech) (CSE)**  **SEMESTER II** | | | | | | | | |
| **Sl. No** | **Type of Course** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Contact**  **Hrs./Wk.** | **Credits** |
| 1 | Theory | CSE21811 | Parallel & Distributed Computing | 3 | 1 | 0 | 4 | 4 |
| 2 | Theory |  | Elective -III | 3 | 0 | 0 | 3 | 3 |
| 3 | Theory |  | Elective -IV | 3 | 0 | 0 | 3 | 3 |
| 4 | Theory |  | Elective -V | 3 | 0 | 0 | 3 | 3 |
| 5 | Theory |  | Elective -VI | 3 | 0 | 0 | 3 | 3 |
| 6 | Seminar | CSE25823 | Seminar -II | 0 | 2 | 0 | 2 | 2 |
| 7 | Practical | CSE22824 | Computing Lab –II | 0 | 0 | 3 | 3 | 2 |
| **Total** | | | | **15** | **3** | **3** | **21** | **20** |

**Total Credits (First Year): 38**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ADAMAS UNIVERSITY**  **SCHOOL OF ENGINEERING & TECHNOLOGY**  **PG PROGRAM: Master of Technology (M.Tech) (CSE)**  **SEMESTER III** | | | | | | | | |
| **Sl. No** | **Type of Course** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Contact**  **Hrs./Wk.** | **Credits** |
| 1 | Theory |  | Elective -VII | 3 | 0 | 0 | 3 | 3 |
| 2 | Seminar | CSE25828 | Technical Report Writing & Seminar – I | 0 | 0 | 6 | 6 | 4 |
| 3 | Project | CSE25829 | Thesis (Part – I) | 0 | 0 | 24 | 24 | 16 |
| **Total** | | | | **3** | **0** | **30** | **33** | **23** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ADAMAS UNIVERSITY**  **SCHOOL OF ENGINEERING & TECHNOLOGY**  **PG PROGRAM: Master of Technology (M.Tech) (CSE)**  **SEMESTER IV** | | | | | | | | |
| **Sl. No** | **Type of Course** | **Course Code** | **Course Title** | **L** | **T** | **P** | **Contact**  **Hrs./Wk.** | **Credits** |
| 1 | Seminar | CSE25830 | Technical Report Writing & Seminar - II | 0 | 0 | 6 | 6 | 4 |
| 2 | Project | CSE25831 | Thesis (Part – II) | 0 | 0 | 27 | 27 | 18 |
| 3 | Viva | CSE25832 | Comprehensive Viva |  |  |  |  | 4 |
| **Total** | | | | **0** | **0** | **33** | **33** | **26** |

**Total Credits (Second Year): 49**

**Total Credits (Over Two Years): 87**

**List of Elective Papers:**

**Elective – I:**

**CSE21807 Pattern Recognition**

**CSE21808 Artificial Intelligence**

**CSE21809 Logic Programming**

**CSE21803 Soft Computing**

**Elective – II:**

**CSE21810 Image and Video Processing**

**CSE21804 Advanced Graph Theory**

**ECE21331 VLSI Design**

**ECE21332 Mobile Computing**

**Elective – III:**

**CSE21812 Advanced Database System**

**CSE21813 Cloud Computing**

**CSE21814 Neural Network and Deep Learning**

**CSE21815 Advances in Compiler Design**

**Elective – IV:**

**CSE21816 Machine Learning**

**CSE21817 Information Retrieval**

**CSE21818 Computational Complexity**

**Elective – V:**

**CSE21819 Formal Systems**

**CSE21820 Principles of Programming Languages**

**CSE21821 High Performance Computer Architecture**

**Elective – VI:**

**CSE21822 Natural Language Processing**

**EEC21345 Internet of Things**

**MKT21401 E-Commerce**

**Elective – VII:**

**CSE21825 Cryptography & Cryptosystems**

**CSE21826 Information Security**

**CSE21827 Cyber Security**