| | | Jaypee University of IT Waknagl | | | | | | |
|----|------------|---|-----------|----------------|-------|-----------|-----|----|
| | | ricula for 2 year MTech Computer Science | | | | | | |
| | E | Batch 2018-20 onwards Mtech CSE: I Ser | nester | ' (M1 |) | | | |
| SN | Sub Code | Subject | C/E Conta | | ontac | act hours | | Cr |
| | | | | L | Т | Ρ | Hr | |
| 1 | 10M11CI111 | Advanced Data Structures | С | 3 | 0 | 0 | 3 | 3 |
| 2 | 10M11CI112 | Advanced Computer Networks | С | 3 | 0 | 0 | 3 | 3 |
| 3 | 10M11CI113 | Advanced Database Systems | С | 3 | 0 | 0 | 3 | 3 |
| 4 | 10M11CI114 | High performance Computer Architecture | С | 3 | 0 | 0 | 3 | 3 |
| 5 | CS | DE-I | E | 3 | 0 | 0 | 3 | 3 |
| 6 | CS | DE-II | E | 3 | 0 | 0 | 3 | 3 |
| 7 | CS | DE-III | E | 3 | 0 | 0 | 3 | 3 |
| 8 | 10M17CI171 | Software Systems Lab - I | С | 0 | 0 | 4 | 4 | 2 |
| | | TOTAL CREDITS | | | | | 25 | 23 |
| | | | | | | | | |
| | | ricula for 2 year MTech Computer Scienc | | | | | | |
| | E | Batch 2017-19 onwards Mtech CSE: II Se | meste | r (M2 | 2) | | | |
| SN | Sub Code | Subject | C/E | C/E Contact he | | ct ho | urs | Cr |
| | | | | L | T | Ρ | Hr | |
| 1 | 10M11Cl211 | Advanced Algorithms | С | 3 | 0 | 0 | 3 | 3 |
| 2 | 10M11CI212 | Advanced Operating Systems | С | 3 | 0 | 0 | 3 | 3 |
| 3 | 10M11CI213 | Advanced Software Engineering | С | 3 | 0 | 0 | 3 | 3 |
| 4 | 10M11CI214 | Multimedia Systems | С | 3 | 0 | 0 | 3 | 3 |
| 5 | CS | DE-IV | E | 3 | 0 | 0 | 3 | 3 |
| 6 | CS | DE-V | E | 3 | 0 | 0 | 3 | 3 |
| 7 | CS | DE-VI | E | 3 | 0 | 0 | 3 | 3 |
| 8 | 10M17CI271 | Software Systems Lab - II | С | 4 | 0 | 2 | 6 | 2 |
| | | TOTAL CREDITS | | | | | 27 | 23 |
| | 0 | | | • | | | | |
| | | ricula for 2 year MTech Computer Science | | | | | | |
| | B | atch 2017-19 onwards Mtech CSE: III Se | Ineste | r (IVI3 |) | | | 1 |
| SN | Sub Code | Subject | C/E | | | t ho | | Cr |
| | | | | L | Т | Ρ | Hr | |
| 1 | 10M19CI393 | Seminar | С | 0 | 0 | 4 | 4 | 2 |
| 2 | 10M19CI391 | Project, Part -I | С | 0 | 0 | 24 | 24 | 12 |
| | | TOTAL CREDITS | | | | | 28 | 14 |

| | | icula for 2 year MTech Computer Science atch 2017-19 onwards Mtech CSE: IV Sem | | | | | | |
|----|------------|---|--------|-----------------|------|-----|----|----|
| | Di | atch 2017-19 onwards Milech CSE: IV Sen | lester | | +) | | | 1 |
| SN | Sub Code | Subject | C/E | C/E Contact hou | | urs | Cr | |
| | | | | L | T | Ρ | Hr | |
| 1 | 10M19CI493 | Project Seminar | C | 0 | 0 | 4 | 4 | 2 |
| 2 | 10M19CI491 | Project, Part -II | С | 0 | 0 | 28 | 28 | 14 |
| | | TOTAL CREDITS | | | | | 32 | 16 |
| | | | | | | | | |
| | List | of Electives for DE-I, DE-II, DE-III, DE-IV,D | | nd,I | DE-V | | | |
| | | To be updated from time to time | | | | | | |
| 1 | 10M1WCI131 | System and Network Security Technique | es | | | | | |
| 2 | 14M1WCI333 | Natural Language Processing | | | | | | |
| 3 | 14M1WCI431 | Parallel Programming Techniques | | | | | | |
| 4 | 11M1WCI432 | Performance Evaluation of Networks | | | | | | |
| 5 | 13M1WCI331 | Machine Learning | | | | | | |
| 6 | 15M1WCI331 | Advanced Theory of Computation | | | | | | |
| 7 | 11M1WCI431 | Advanced Web Mining | | | | | | |
| 8 | 15M1WCI431 | Advanced Al | | | | | | |
| 9 | 15M1WCI432 | Advanced Computational Techniques in Engineering | | | | | | |
| 10 | CS | Algorithmic Graph Theory | | | | | | |
| 11 | CS | Analysis of Algorithms | | | | | | |
| 12 | CS | Cognitive Sciences | | | | | | |
| 13 | CS | Computation Theory and Applications | | | | | | |
| 14 | CS | Computer Vision | | | | | | |
| 15 | CS | Control Systems Security | | | | | | |
| 16 | 18M1WCI113 | Cyber Warfare & Cyber Crime | | | | | | |
| 17 | CS | Embedded System Design | | | | | | |
| 18 | CS | Fault Tolerant Computing | | | | | | |
| 19 | CS | Grid Computing | | | | | | |
| 20 | CS | Incident Response & Event Management | | | | | | |
| 21 | CS | Information and Network Security | | | | | | |
| | CS | Intelligent Systems | | | | | | |
| 23 | CS | Knowledge Discovery | | | | | | |
| 24 | CS | Machine Learning | | | | | | |
| 25 | CS | Mobile Computing | | | | | | |
| 26 | CS | Parallel Computing | | | | | | |
| 27 | CS | Pattern Recognition | | | | | | |
| 28 | CS | Penetration Testing | | | | | | |
| 29 | CS | Performance Evaluation of Computer Ne | etwor | ks | | | | |
| 30 | CS | Quantum Algorithms | | | | | | |

| 31 | CS | Real Time Operating Systems |
|----|------------|---|
| 32 | CS | Theory of Programming Languages |
| 33 | CS | Threat & Vulnerability Analysis |
| 34 | CS | VLSI Algorithms |
| 35 | CS | Advanced Wireless and Mobile Communications |
| 36 | CS | Digital CMOS design |
| 37 | CS | Digital Signal Processors and Applications |
| 38 | CS | Information and Coding Theory |
| 39 | CS | VLSI Circuit and System Design |
| 40 | CS | VLSI Modelling and Simulation |
| 41 | CS | VLSI Testing |
| 42 | 18M1WCI332 | Deep Learning |

| Summary | Cr |
|---------|----|
| Sem1 | 23 |
| Sem2 | 23 |
| Sem3 | 14 |
| Sem4 | 16 |
| Total | 76 |