

**Details of Courses for Semester-II, 2020-21 (PhD)****CSE Discipline**

| Course Code   | Course Name                          | L-T-P-C | Offered By Discipline | Instructor | No. of Student |
|---|--------------------------------------|---------|-----------------------|------------|----------------|
| <b>OE1 (Choose any One course from below electives)</b> |                                      |         |                       |            |                |
| CS1a  | Network Security & Cryptography      | 3-0-0-3 | CSE                   | ND         | 21+100         |
| CS1b  | Social Network Analysis              | 3-0-0-3 | CSE                   | AS         | 3+15           |
| <b>OE2 (Choose any One course from below electives)</b> |                                      |         |                       |            |                |
| CS2a  | Reinforcement Learning               | 3-0-0-3 | CSE                   | MKB        | 14+33          |
| CS313a  | Image Processing                     | 3-0-0-3 | CSE                   | PK         | 6+69           |
| <b>OE3 (Choose any One course from below electives)</b> |                                      |         |                       |            |                |
| CS3a  | Introduction to Digital watermarking | 3-0-0-3 | CSE                   | DS         | 12+91          |
| CS314b  | Machine Learning                     | 3-0-0-3 | CSE                   | KKB        | 11+35+11       |
| <b>OE4 (Choose any One course from below electives)</b> |                                      |         |                       |            |                |
| CS4a  | Compiler Design                      | 3-0-0-3 | CSE                   | SKM        | 3+11           |
| CS609   | Mobile and Wireless Networks         | 3-0-0-3 | CSE                   | VKJ        | 23+10          |
| <b>OE5 (Choose any One course from below electives)</b> |                                      |         |                       |            |                |
| CS617   | Deep Learning                        | 3-0-0-3 | CSE                   | AO         | 2+12           |
| CS428   | Computer Vision with Deep Learning   | 3-0-0-3 | CSE                   | PK         | 22+20          |

**ECE Discipline**

| Course Code | Course Name                      | L-T-P-C | Offered By Discipline | Instructor | No. of Student |
|-------------|----------------------------------|---------|-----------------------|------------|----------------|
| OE1         | Nano photonics and plasmonic     | 3-0-0-3 | ECE                   | DKV        | 5+25           |
| OE2         | Neural Networks and Fuzzy Logic  | 3-0-0-3 | ECE                   | IAA        | 6+18           |
| OE3         | RF and Microwave Active Circuits | 3-0-0-3 | ECE                   | MSP        | 4+5            |
| OE4         | Low power VLSI Design            | 3-0-0-3 | ECE                   | PR         | 1+9            |
| OE5         | VLSI test and Testibility        | 3-0-0-3 | ECE                   | KD         | 0+9            |
| OE6         | Mixed Mode Circuit Design        | 3-0-0-3 | ECE                   | NB         | 2              |
| OE7         | Digital System Design            | 3-0-0-3 | ECE                   | PR         | 9+2            |

**ME Discipline**

| Course Code | Course Name                                      | L-T-P-C | Offered By Discipline | Instructor | No. of Student |
|-------------|--|---------|-----------------------|------------|----------------|
| ME1         | Research Methodology for Mechanical Engineers    | 3-0-0-3 | ME                    | KP         | 1              |
| ME11        | Special topics in Mechanical Vibrations          | 3-0-0-3 | ME                    | VKG        | 6              |
| ME18        | Smart Materials and Structures                   | 3-0-0-3 | ME                    | SM         | 3              |
| ME31        | Metal Forming                                    | 3-0-0-3 | ME                    | PT         | 4              |
| ME35        | Microfluidics Applications                       | 3-0-0-3 | ME                    | TS         | 1              |
| MEO1        | MEMS: Microfabrication and Application           | 3-0-0-3 | ME                    | HSN        | 21             |
| MEO2        | Mechanic of composite materials and Applications | 3-0-0-3 | ME                    | SDP        | 9              |

### NS (MATHEMATICS) Discipline

| Course Code | Course Name       | L-T-P-C | Offered By Discipline | Instructor | No. of Student |
|-------------|-------------------|---------|-----------------------|------------|----------------|
| NS205e      | Numerical Methods | 3-0-0-3 | NS                    | MKP        | 3+54           |
| NS205f      | OPTIMIZATION      | 3-0-0-3 | NS                    | DM         | 9+60           |

### NS (Physics) Discipline

| Course Code | Course Name                   | L-T-P-C | Offered By Discipline | Instructor | No. of Student |
|-------------|-------------------------------|---------|-----------------------|------------|----------------|
| PHY606      | Advanced Quantum Mechanics    | 3-0-0-3 | NS                    | NRJ        | 4              |
| PHY603      | Emerging Electronic Materials | 3-0-0-3 | NS                    | NKJ        | 6              |

### DESIGN Discipline

| Course Code                                     | Course Name  | L-T-P-C | Offered By Discipline | Instructor | No. of Student |
|---|--|---------|-----------------------|------------|----------------|
| <b>OE5 (Choose course from below electives)</b> |  |         |                       |            |                |
| DS806   | The Trends in Digital Media Arts                   | 3-0-0-3 | DS                    | TS         | 1              |
| ENG610  | Second Language Pedagogy                           | 3-0-0-3 | DS                    | JAMF       | 0              |
| ENG611  | English for Specific Purposes                      | 3-0-0-3 | DS                    | JAMF       | 0              |
| ELit602   | Review of English Literature across the continents | 2-0-0-2 | DS                    | MA         | 4              |
| ELit606   | Literature and Film Studies                        | 3-0-0-3 | DS                    | MA         | 4              |