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| **Semester**  **Bachelor of Technology in Electronics and Communication Engineering with Specialization Track in IOT (2018-19)** | **Course Code, Course Name**  **(L-T-P)Credits** | | | | | | | | | | | | **GP** | **CS** | **Contact Hours** | | | **Credits** | |
| **1** | PYL150  Engg. Phy. (3-0-2)4 | | | MAL151  Engg. Maths I (3-0-2)4 | CSL106  FOCP-I  (1-0-2)2 | ECL110 BEEE  (3-0-2)4 | | | MEL150  BM.E.  (2-0-2)3 | CLL101 Eff Comm. I  (1-0-2)2 |  | ECR107  GP1  1 Credit | |  | | 380 | | **19 +1 = 20** | | |
| **2** | CHL150  Engg. Chem.  (2-0-2)3 | | | MAL152 Engg.Maths-II  (3-0-2)4 | CSL108  FOCP-II  (1-0-2)2 | MEP110  Engg Graphics & Drg  (1-0-3) 3 | | | CLL120  HVPE  (2-0-0)2 | CLL102 Eff Comm. II  (1-0-2)2 | CSL110  Problem Solving and design thinking  (2-0-2)3 | ECR108  GP2  1 Credit | |  | | 380 | | **19 + 1= 20** | | |
| **3** | CSL251  Programming I (2-0-5) 4.5 | | | CSL253  Progressive WebApps I (2-0-7) 5.5 | ECL251  Analog Electronics & Integrated circuits (2-0-2)3 | ECL253  Fields, waves and Antennas  (2-0-2) 3 | | | ECL255  Digital Electronics and Computer Architecture  (2-0-3) 3.5 |  |  | ECR207  GP3  1 Credit | |  | | 390 | | **19.5 +1 = 20.5** | | |
| **4** | CSL252  Programming II (2-0-6) 5 | | | ECL256  Embedded System Design  (2-0-4) 4 | ECL252  Micro Controllers & Sensors (2-0-5) 4.5 | ECL254  Analog and Digital Communications (2-0-2) 3 | | | ECL258  Signal processing  (2-0-2)3 |  |  | EC208  GP4  1 Credit | |  | | 390 | | **19.5 + 1= 20.5** | | |
| **Summers** | ECT201 Practical Training | | | | | | | | | | | |  |  |  | | | **02** | |
| **5** | CSL234  Data Mining & Data Warehousing (2-0-6) 5 | | CSL361  Security in IoT  (2-0-5) 4.5 | | CSL237  Introduction to AI, ML and DL  (2-0-8) 6 | ECL302  Data communications and networks  (2-0-1) 2.5 | | ECL316  Wireless and Mobile Communication  (2-0-1) 2.5 | |  |  | ECR307  GP5  1 Credit | | ECS 301  CS3 #1  (35-Hrs)  S/NS Course | | 410 | | **20.5 +1**  **= 21.5** | | |
| **6** | CSL362  Introduction to Big Data (2-0-6) 5 | | CSL364  Cloud & Fog Computing (1-0-5) 3.5 | | ECL352  Design for IoT (1-0-6) 4 | CLP300  Campus to Corporate   * + 1. 1.5 | | CHL100  Environmental Studies  (3-0-0) 3 | | Management Course  (2-0-0) 2 |  | ECR308  GP6  1 Credit | | ECS 302  CS3 #2  (35-Hrs)  1 Credit | | 380 | | **19 + 2= 21** | | |
| **Summers** | ECT301 Industrial Internship including 7 days community service | | | | | | | | | | | |  |  |  | | | **03** | |
| **7** | ECD401  Project # 1  (0-0-20) 10 | | Foreign Language  (2-0-0) 2 | | SML300  Entrepreneurship  (2-0-0) 2 | | ECL451  Image Processing and Computer Vision  (1-0-3) 2.5 | Open Elective (MOOC)  (2-0-2) 3 | |  |  | ECR407  GP7  1 Credit | | ECS 401  CS4 #1  (70-Hrs)  S/NS Course | | 390 | | **19.5 +1=20.5** | | |
| **8** | ECD402  Project # 2 / Internship  (0-0-34) 17 | | SEG 400  Self-Study Course GATE Audit | | CSL436  AI and Ethics (Online) (S/NS) Audit | |  |  | |  |  | ECR408  GP8  1 Credit | | ECS 402  CS4 #2  (70-Hrs)  2 Credits | | 340 | | **17 + 3= 20** | | |
|  |  | Total Credits **158+8(GP)+3CS** | | | | | | | | | | | | | | | **169** | | | | |
|  | \* In semester 8th, 2 MOOC courses can be conducted and there will be a provision to do industrial internship in place of Major project (2). | | | | | | | | | | | | | | | | | |