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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** | PYL150Engg. Phy. (3-0-2)4 | MAL151Engg. Maths I (3-0-2)4 | CSL106FOCP-I(1-0-2)2 | ECL110BEEE(3-0-2)4 | MEL150BM.E.(2-0-2)3 | CLL101Eff Comm. I(1-0-2)2 |  | ECR107GP11 Credit |  | 380 | **19 +1 = 20** |
| **2** | CHL150Engg. Chem.(2-0-2)3 | MAL152Engg.Maths-II(3-0-2)4 | CSL108FOCP-II(1-0-2)2 | MEP110Engg Graphics & Drg(1-0-3) 3 | CLL120HVPE(2-0-0)2 | CLL102Eff Comm. II(1-0-2)2 | CSL110Problem Solving and design thinking(2-0-2)3 | ECR108GP21 Credit |  | 380 | **19 + 1= 20** |
| **3** | CSL251Programming I (2-0-5) 4.5 | CSL253Progressive WebApps I (2-0-7) 5.5 | ECL251Analog Electronics & Integrated circuits (2-0-2)3 | ECL253Fields, waves and Antennas (2-0-2) 3 | ECL255 Digital Electronics and Computer Architecture(2-0-3) 3.5 |  |  | ECR207GP31 Credit |  | 390 | **19.5 +1 = 20.5** |
| **4** | CSL252Programming II (2-0-6) 5 | ECL256Embedded System Design(2-0-4) 4 | ECL252Micro Controllers & Sensors (2-0-5) 4.5 | ECL254Analog and Digital Communications (2-0-2) 3 | ECL258Signal processing(2-0-2)3 |  |  | EC208GP41 Credit |  | 390 | **19.5 + 1= 20.5** |
| **Summers** | ECT201 Practical Training  |  |  |  | **02** |
| **5** | CSL234Data Mining & Data Warehousing (2-0-6) 5 | CSL361Security in IoT (2-0-5) 4.5 | CSL237Introduction to AI, ML and DL  (2-0-8) 6 | ECL302  Data communications and networks (2-0-1) 2.5 | ECL316Wireless and Mobile Communication(2-0-1) 2.5 |  |  | ECR307GP51 Credit | ECS 301CS3 #1(35-Hrs)S/NS Course | 410 | **20.5 +1****= 21.5** |
| **6** | CSL362Introduction to Big Data (2-0-6) 5 | CSL364Cloud & Fog Computing (1-0-5) 3.5 | ECL352Design for IoT (1-0-6) 4 | CLP300Campus to Corporate* + 1. 1.5
 | CHL100Environmental Studies(3-0-0) 3 | Management Course(2-0-0) 2 |  | ECR308GP61 Credit | ECS 302CS3 #2(35-Hrs)1 Credit | 380 | **19 + 2= 21** |
| **Summers** | ECT301 Industrial Internship including 7 days community service |  |  |  | **03** |
| **7** | ECD401Project # 1(0-0-20) 10 | Foreign Language(2-0-0) 2 | SML300Entrepreneurship(2-0-0) 2 | ECL451Image Processing and Computer Vision(1-0-3) 2.5 | Open Elective (MOOC)(2-0-2) 3 |  |  | ECR407GP71 Credit | ECS 401CS4 #1(70-Hrs)S/NS Course | 390 | **19.5 +1=20.5** |
| **8** | ECD402Project # 2 / Internship(0-0-34) 17 | SEG 400Self-Study Course GATE Audit | CSL436AI and Ethics (Online) (S/NS) Audit |  |  |  |  | ECR408GP81 Credit | ECS 402CS4 #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).  |