

*KL UNIVERSITY*  
*Green Fields, Vaddeswaram.*

*List of Pre-Ph.D Courses*  
*L-T-P-S: 3-0-0-0*

*DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING*

| S.No | Paper 1                 | Subject Code |
|------|-------------------------|--------------|
| 1    | RESEARCH<br>METHODOLOGY | 21RES104     |

| S.N | Code    | PAPER – 2                               | Code    | PAPER – 3                                |
|-----|---------|-----------------------------------------|---------|------------------------------------------|
| 1.  | 21EC201 | Global Positioning Systems              | 21EC301 | Bio Medical signal Processing            |
| 2.  | 21EC202 | Machine Learning                        | 21EC302 | Advanced Embedded Processor Architecture |
| 3.  | 21EC203 | Embedded Networking                     | 21EC303 | Wireless Cellular Communications         |
| 4.  | 21EC204 | Modern Digital Communication            | 21EC304 | Natural Language Processing              |
| 5.  | 21EC205 | SOFT COMPUTING                          | 21EC305 | Advanced Computational Mathematics       |
| 6.  | 21EC206 | Digital Video Processing                | 21EC306 | EMI/EMC                                  |
| 7.  | 21EC207 | Radiating systems                       | 21EC307 | MEMS Measurement Techniques              |
| 8.  | 21EC208 | Micro Electro Mechanical Systems        | 21EC308 | Antenna Measurements                     |
| 9.  | 21EC209 | RF & Microwave System Design            | 21EC309 | VLSI System Design                       |
| 10. | 21EC210 | Low Power VLSI Circuits                 | 21EC310 | MOS Circuit Design                       |
| 11. | 21EC211 | Detection and Estimation Of Signals     | 21EC311 | Testing of VLSI Circuits                 |
| 12. | 21EC212 | Adaptive Signal Processing              | 21EC312 | Advanced Analog IC Design                |
| 13. | 21EC213 | Real Time Concepts for Embedded Systems | 21EC313 | Microwave and Millimeter wave Circuits   |
| 14. | 21EC214 | Image Processing and Computer Vision    | 21EC314 | Pattern Recognition                      |
| 21. | 21EC215 | ASIC Design Flow                        | 21EC315 | CMOS RF Circuit Design                   |