



Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

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| Department of ELECTRICAL & ELECTRONICS ENGINEERING | | | | | | |
|--|----------|--|---|---|----|----|
| CURRICULUM STRUCTURE FOR Y18 M.TECH POWER SYSTEMS | | | | | | |
| Sl | Course | Course Title | L | T | P | Cr |
| 1 | 18EE5101 | Power System Dynamics & stability | 3 | 1 | 0 | 4 |
| 2 | 18EE5102 | Advanced Power System Analysis | 3 | 1 | 2 | 5 |
| 3 | 18EE5103 | Deregulated Operation of Power Systems | 3 | 1 | 0 | 4 |
| 4 | 18EE5104 | Modern Control Theory | 3 | 1 | 0 | 4 |
| 7 | 18IE5149 | Seminar | 0 | 0 | 4 | 2 |
| 1 | 18EE5205 | Real Time Control of Power System | 3 | 1 | 2 | 5 |
| 2 | 18EE5206 | AI Techniques in Power Systems | 3 | 1 | 0 | 4 |
| 3 | 18EE5207 | Smart Grids Technologies | 3 | 1 | 0 | 4 |
| 4 | 18EE5208 | Digital Protection of Power Systems | 3 | 1 | 0 | 4 |
| 5 | | Elective - 1 | 3 | 0 | 0 | 3 |
| 6 | | Elective - 2 | 3 | 0 | 0 | 3 |
| 5 | | Elective - 3 | 3 | 0 | 0 | 3 |
| 6 | | Elective - 4 | 3 | 0 | 0 | 3 |
| 7 | 18IE5250 | Term Paper | 0 | 0 | 4 | 2 |
| 1 | 18IE6050 | Dissertation | 0 | 0 | 72 | 36 |
| Total Credits | | | | | | 86 |

| Elective-1 | | | | | | |
|------------|----------|--|---|---|---|---|
| 1 | 18EE51A1 | Reactive Power Compensation & Management | 3 | 0 | 0 | 3 |
| 2 | 18EE51A2 | Distribution System Planning & Automation | 3 | 0 | 0 | 3 |
| 3 | 18EE51A3 | Power System Reliability | 3 | 0 | 0 | 3 |
| Elective-2 | | | | | | |
| 1 | 18EE51B1 | Alternative Sources of Electrical Energy | 3 | 0 | 0 | 3 |
| 2 | 18EE51B2 | Digital Signal Processors and Applications | 3 | 0 | 0 | 3 |
| 3 | 18EE51B3 | Optimization Techniques | 3 | 0 | 0 | 3 |
| Elective-3 | | | | | | |
| 1 | 18EE52C1 | FACTS DEVICES | 3 | 0 | 0 | 3 |
| 2 | 18EE52C2 | Energy Conservation & Audit | 3 | 0 | 0 | 3 |
| 3 | 18EE52C3 | Adaptive Control Systems | 3 | 0 | 0 | 3 |
| Elective-4 | | | | | | |
| 1 | 19EE52D1 | EHVAC & HVDC Transmission | 3 | 0 | 0 | 3 |
| 2 | 18EE52D2 | Power Quality | 3 | 0 | 0 | 3 |
| 3 | 18EE52D3 | Integration of Energy Sources | 3 | 0 | 0 | 3 |

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