CORE COURSES

- MSE students shall select at least 3 courses from this list,
- MS students shall select at least 3 courses from this list.

Note: EEE 591 courses cannot be included in this list, they are undergraduate courses included in the Extension Courses.

1. EEE 562 – Nuclear Reactor Theory and design
2. EEE 563 – Nuclear Reactor System Dynamics and Diagnostic
3. EEE 564 – Nuclear Power Operation
4. EEE 571 – Power System Transients
5. EEE 572 – Advanced Power Electronics
6. EEE 573 – Electric Power Quality
7. EEE 574 – Comp Solution of Power System
8. EEE 575 – Power System Stability
9. EEE 576 – Power System Dynamics
10. EEE 577 – Power System Operation and Planning
11. EEE 579 – Transmission and Distribution
12. EEE 598_1 – Renewable Electric Energy Systems
13. EEE 598_2 – Electric Energy Markets
14. EEE 598_3 – Power Plant Control and Monitoring
15. EEE 598_5 – Cyber Security and Privacy in Smart Grid
16. EEE 598_6 – Operations Research Applied to Electric Power Systems

EXTENSION CLASSES

- MSE students can select at most 2 courses from this list,
- MS students can select at most 2 courses from this list,

1. EEE 460 – Nuclear Power Engineering
2. EEE 463 – Electrical Power Plants.
5. EEE 472 – Power Electronics & Power Management
6. EEE 473 – Electrical Machinery

OUT OF POWER AREA CLASSES

- MSE students can select at most 2 courses from this list,
- MS students can select at most 2 courses from this list.

Note: Students can select other 400 or 500 level classes with the permission of their supervisor. These are recommended classes for Electric Power and Energy Area students:

1. IEE 511 – Analysis of Decision Process
2. IEE 572 – Design of Engineering Experience
3. IEE 574 – Applied Deterministic Operations Research
4. IEE 575 – Applied Stochastic Operation Research
5. APM 523 – Optimization
6. EEE 582 – Linear Systems Theory
7. EEE 686 – Nonlinear control
8. EEE 587 – Optimal control
9. MSE 565 – Structural Materials in Nuclear Power Systems
10. Mathematics, Recommended area: Numerical analysis, Statistics and probability and Optimization

READING AND CONFERENCE CLASSES

- Both MS and MSE students can take at most one Reading and Conference (EEE 590) or FSE 500-level course.