

## M. Tech Nuclear Engineering (Course Code and Course Name)

### Semester-1

1	MA 501T	Advanced Numerical Methods and Computer Programming
2	NE 501	Introduction to Nuclear Technology
3	NE 502	Nuclear Reactor Theory
4	NE 503	Nuclear Thermal Hydraulics
5	NE 504	Radio-Isotope Applications
6	SE 505	Renewable Energy & Energy Management
7	NE 500	Seminar
8	MA 501P	Advanced Numerical Methods (lab)

### Semester-2

1	NE 505	Nuclear Plant Operation, Dynamics & Control
2	NE 506T	Radiation Measurement & Radiation Protection
3	NE 506P	Radiation Measurement lab
4	NE 507	Nuclear Power Plant Engineering
5	NE 508	Nuclear Safety
6	NE 509	Nuclear Fuel Cycle
7	NE510	Elective I: Multivariable control Theory
	NE 511	Elective II: Reliability in Nuclear Power Plants
	NE 512	Elective III : Computational Neutron Transport & Radiation Shielding
8		Introduction to Research Methodology

### Semester-3

1	ME 601	Seminar
2	ME 602	Project
3	ME 603	Pedagogy Practice I
4	ME 604	Industrial training

### Semester-4

1	ME 605	Seminar
2	ME 606	Project
3	ME 607	Dissertation
4	ME 608	Pedagogy Practice II