

MS EM Curriculum

Program Structure & Road Map (Proposed for Fall 2023 to onwards)

It is a 30 Credit hours program offered as below.

Plan A

Component	Credit Hours
Core Courses	12
Electives	12
Thesis	06
Total	30

Plan B

Component	Credit Hours
Core Courses	12
Electives	18
Total	30

Salient of the program are:

- Duration: Two Years / Four Semesters
- Complex Engineering Problem is compulsory for graduation
- Two courses of graduate level can be taken from any other department of SEN as electives

Following is a list of core courses

Course Code	Course Title	Credit Hours
IE631	Research Methodology	3
IE613	Lean Manufacturing	3
EM522	MIS for Engineers	3
IE533	Economic Decisions in Engineering Management	3

Following is a list of elective courses

Course Code	Course Title	Credit Hours
EM 601	Special Topics in Engineering	3
EM 534	Maintenance and Safety	3
EM 531	Project Management	3
IE 505	Total Quality Management	3
IE 521	Operations Management	3
CE 519	Cost Estimation and Control	3
EM 542	Ergonomics and Work Studies	3
IE 522	Mathematical Modelling and Decision Making	3
EM 607	Leading Diverse Workforce	3
EM 611	Artificial Intelligence in Manufacturing	3
EEN 501	Energy Management	3
IE 601	Six Sigma	3
EM 532	Organizational Behaviour	3
IE 632	Procurement and Supply Chain management	3
EM 535	Human Resource Management	3
IE 541	Business Communications	3
EM 536	Project Planning and Scheduling	3
EEN 511	Environmental Management and Safety	3
EM 542	Leadership, motivation and organizational control	3