

## DEPARTMENT OF INDUSTRIAL & MANUFACTURING ENGINEERING

### MASTER OF ENGINEERING MANAGEMENT (MEM) PROGRAMME

#### 4.6.1(a) List of Courses for the Masters of Engineering Management Programme

##### (i) Compulsory Courses

Course No.	Course Title	Credit Hours
EM 501	Organizational Systems	3
EM 502	Accounting and Financial Management	3
EM 503	Strategic Planning and Decision Making	3
EM 504	Project Management Framework and Tools	3
EM 505	Operations Research	3

##### (ii) Common Electives

Course No.	Course Title	Credit Hours
EM 511	Total Quality Management	3
EM 512	Project Evaluation and Feasibility Analysis	3
EM 513	Research Methods in Engineering Management	3

##### (iii) Elective Courses

###### (e) Industrial Management

Course No.	Course Title	Credit Hours
IM 501	Supply Chain Management	3
IM 502	Computer Simulation Methods	3
IM 503	Maintenance Management	3
IM 505	Automated Manufacturing Systems	3
IM 506	Business Process Reengineering	3
IM 515	Agile & Lean Manufacturing	3
IM 526	Facilities Planning and Layout	3
ME 524	Reliability & Quality Engineering	3
ME 527	Human Factors Engineering	3
ME 529	Management Information Systems (MIS)	3
ME 542	Energy Management	3
ME 546	Energy Planning	3
IM 599	Dissertation	6

###### (f) Quality Management

Course No.	Course Title	Credit Hours
IM 506	Business Process Reengineering	3

IM 511	Statistical Quality Control	3
IM 512	Reliability Engineering	3
IM 513	Six Sigma Methodologies	3
IM 514	Quality Planning and Management	3
IM 515	Agile and Lean Manufacturing	3
IM 516	Design and Analysis of Experiments	3
IM 517	Advanced Quality Engineering	3
IM 599	Dissertation	6

**(i) Supply Chain Management**

<b>Course No.</b>	<b>Course Title</b>	<b>Credit Hours</b>
IM-501	Supply Chain Management	3
IM-550	Advanced Principles of Supply Chain Management	3
IM-551	Information Technology for Supply Chain Management	3
IM-552	Logistics Management	3
IM-553	Green Supply Chain Management	3
IM-554	Procurement Management	3
IM-555	Business Process Simulation	3
IM-556	Retail Management	3
IM-557	Managing Supply Chain Inventory	3
IM-558	Change Management	3
IM-559	International Trade	3
IM-560	Process Management	3
IM-561	Principles of Marketing	3
IM-562	New Product and Service Development Management	3
IM-563	Warehouse Management and Physical Distribution Network	3
IM-564	Supplier Relationship Management	3
IM-600	Independent Study Project	6
IM-601	Dissertation	9