

**Maulana Azad National Institute of Technology, Bhopal – 462003**

**ENERGY CENTRE ऊर्जा केंद्र**

**Master of Science (M. Sc.) in Energy Economics and Management**

**Scheme of Study (w.e.f-July 2025)**

**FIRST SEMESTER:**

<b>COURSE CODE</b>	<b>Title of the Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credit</b>
MC EM 1101	Statistical Analysis	3	0	-	3
EN EM 1102	Sustainable Energy Systems	3	0	-	3
HS EM 1103	Managerial Economics	3	0	-	3
EN EM 1104	Energy Audit and Management	3	0	-	3
	Department Elective-1	3	0	-	3
EN EM 1105	Energy Lab-1	-	-	2	1
HS EM 1106	Economics Lab	-	-	2	1
EN EM 1107	Seminar-1	-	-	2	1
EN EM 1108	Minor Project-1 (Self Learning)	-	-	-	2
HS 1101	Communication skills	-	-	2	0
<b>Total No. of Credits:</b>					<b>20</b>

- Communication Skill will be Audit Course of 2 credits which will not be counted in SGPA/CGPA calculation

**SECOND SEMESTER:**

<b>COURSE CODE</b>	<b>Title of the Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credit</b>
HS EM 1201	Econometrics	3	-	-	3
EN EM 1202	Waste and Pollution Management	3	-	-	3
EN EM 1203	Energy Policies and Planning	3	-	-	3
EN EM 1204	Green Building Economics	3	-	-	3
	Department Elective II	3	-	-	3
EN EM 1205	Energy Lab 2	-	-	2	1
HS EM 1206	Econometrics Lab-1	-	-	2	1
EN EM 1207	Seminar-2	-	-	2	1
EN EM 1208	Minor Project-2 (Self Learning)	-	-	-	2
<b>Total No. of Credits:</b>					<b>20</b>

**THIRD SEMESTER:**

<b>COURSE CODE</b>	<b>Title of the Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credit</b>
MG EM 2101	Project and Financial Management of Energy Systems	3	-	-	3
HS EM 2102	Energy and Environmental Economics	3	-	-	3
EN EM 2103	Energy Storage Management	3	-	-	3
EN EM 2104	Smart Energy Systems Management	3	-	-	3
	Department Elective III	3	-	-	3
EN EM 2105	Energy Lab 3	-	-	2	1
HS EM 2106	Econometrics Lab-2	-	-	2	1
EN EM 2107	Seminar-3	-	-	2	1
EN EM 2108	Minor Project-3 (Self Learning)	-	-	-	2
<b>Total No. of Credits:</b>					<b>20</b>

**FOURTH SEMESTER:**

<b>COURSE CODE</b>	<b>Title of the Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credit</b>
EN EM 2201	Major Project Dissertation	-	-	40	20
<b>Total No. of Credits:</b>					<b>20</b>

**Grand Total of Course Credits = 20 + 20 + 20 + 20 = 80**

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**SCHEME of Study (w.e.f. - July 2025)**

**List of Electives I, II & III**

<b>List of Department Electives I</b>	
EN EM 1151	Power Plant Economics
EN EM 1152	Operation Research and Management
EN EM 1153	Energy Efficiency in Electrical Utilities
EN EM 1154	Alternative Fuels
<b>List of Department Electives II</b>	
EN EM 1251	Energy Efficiency in Thermal Utilities
EN EM 1252	Life Cycle Analysis of Energy Systems
HS EM 1253	International Trade and Business in Energy
EN EM 1254	Hybrid Renewable Energy Management
EN EM 1255	Research Methodology
<b>List of Department Electives III</b>	
EN EM 2151	Climate Change and Carbon Sequestration
EN EM 2152	Modelling & Simulation of Energy Systems
MG EM 2153	Green Finance and Fintech for Energy Systems
EN EM 2154	Design and Optimization software for Energy Systems

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