

Master of Technology in Energy Studies

Interdisciplinary Programme

Programme Code: JES

The overall credits structure

Category	PC	PE	OE	Total
Credits	42	12	06	60

Programme Core (PC)

ESL710	Energy, Ecology and Environment	3-0-0	3
ESL711	Fuel Technology	3-0-0	3
ESP713	Energy Laboratory (JES)	0-0-6	3
ESL720	Energy Conservation	3-0-0	3
ESL730	Direct Energy Conversion	3-0-0	3
ESL740	Non-Conventional Sources of Energy	3-0-0	3
ESL750	Economics and Planning of Energy Systems	3-0-0	3
ESL760	Heat Transfer	3-0-0	3
JSD801	Major Project Part 1 (JES)	0-0-12	6
JSD802	Major Project Part 2 (JES)	0-0-24	12
	<i>Ten Program Core (Admissible)</i>	<i>21-0-42</i>	<i>42</i>

Programme Electives (PE)

ESL714	Electrical Power Plant Engineering	3-0-0	3
ESL718	Power Generation, Transmission and Distribution	3-0-0	3
ESL722	Integrated Energy Systems	3-0-0	3
ESL732	Bioconversion and Processing of Waste	3-0-0	3
ESL734	Nuclear Energy	3-0-0	3
ESL737	Plasmas for Materials Processing	3-0-0	3
ESL746	Hydrogen Energy	3-0-0	3
ESL755	Solar Photovoltaic Devices and Systems	3-0-0	3
ESL768	Wind Energy and Hydro Power Systems	3-0-0	3
ESL770	Solar Energy Utilization	3-0-0	3
ESL774	Quantitative Methods for Energy Management and Planning	3-0-0	3
ESL784	Cogeneration and Energy Efficiency	3-0-0	3
ESL792	Advanced Energy Systems	3-0-0	3
ESL810	MHD Power Generation	3-0-0	3
ESL840	Solar Architecture	3-0-0	3
ESL850	Solar Refrigeration and Air Conditioning	3-0-0	3
ESL860	Electrical Power Systems Analysis	3-0-0	3
ESL870	Fusion Energy	3-0-0	3
ESL871	Advanced Fusion Energy	3-0-0	3
ESL875	Alternative Fuels for Transportation	3-0-0	3
JSS800	Independent Study (JES)	0-3-0	3
JSD799	Minor Project (JES)	0-0-6	3
	<i>Four Program Elective (Admissible)</i>	<i>12-0-0</i>	<i>12</i>
	<i>Two Open Elective(s)</i>	<i>6-0-0</i>	<i>6</i>