

## **Degree Requirements of MSc (Energy Systems)**

*(for cohorts AY2022/2023 and onwards)*

The graduation requirements include obtaining a minimum Cumulative Average Point (CAP) of 3.0 (equivalent to an average of Grade B-) for the best 40 MCs, inclusive of core modules.

Students of the M.Sc. (Energy Systems) must successfully complete a multidisciplinary programme of study consisting of 40 MCs, at least 12 MCs from Energy Technologies and at least 12 MCs from Innovation and Management. The remaining 16 MCs can be from any basket of modules.

### **Energy Technologies Modules**

CN5190	Hydrogen Energy and Technology
CN5192	Future Fuel Options: Prospects and Technologies
CN5194	Carbon Capture Sequestration and Utilization
EE5713	Modern Power Systems and Smart Grid
ME5207	Solar Energy Systems
ME5209	Energy Technologies and Systems
MLE5212	Energy Conversion and Storage

### **Innovation and Management Modules**

IE5003	Cost Analysis and Engineering Economy
IE5203	Decision Analysis
IE5206	Energy and Sustainability: A Systems Approach
IE5207	Energy Systems Modelling and Market Mechanisms
MT5007	Management of Technological Innovation
MT5010	Technology Forecasting, Intelligence & Foresighting
MT5020	Managing the Human Elements of Technology Management

### **General Modules**

CN5202	Selected Topics in Energy Systems
CN5550	Energy Systems Project (8MCs)

*Note: All modules listed are worth 4 MCs each except for CN5550 Energy Systems Project which is 8 MCs.*

*\* Not all modules listed above are necessarily available in any one year, and new modules may be made available from time to time.*