

Table 3. Template for Minor in SEE

Name of course	Credits
A. Compulsory Course	L-T-P-C
SEE-605: An Introduction to Sustainable Energy Technologies (with Laboratory)	2-0-3-9
B. Department Electives (Minimum 2 courses from the following list)	
SEE-601: Thermo-Fluid Engineering	3-0-0-9
SEE-602: Physics of Energy Materials	3-0-0-9
SEE-603: Electrical Power Engineering	3-0-0-9
SEE-604: Thermodynamics of Energy Systems	3-0-0-9
SEE-606: Electrochemical Energy Systems	3-0-0-9
SEE-607: Hydrogen Energy: Production, Storage and Utilization	3-0-0-9
SEE-608: Introduction to Bioenergy and Biofuels	3-0-0-9
SEE-609: Mathematical and Computational Tools for Engineering	3-0-0-9
SEE-610: Introduction to Materials Modelling and Simulations	3-0-0-9
SEE-611: Energy Systems: Modelling and Analysis	3-0-0-9
SEE-612: Manufacturing of Energy Systems	3-0-0-9
SEE 613: Solar Photovoltaics	3-0-0-9
SEE-614: Wind Energy	3-0-0-9
SEE-615: Solar Thermal Engineering	3-0-0-9
SEE-616: Renewables Integrated Smart Power Systems	3-0-0-9
SEE-617: Introduction to Sustainable Energy Policy	3-0-0-9
SEE-618A: Energy Efficient Building Design	3-0-0-9
SEE-619: Finite Volume Methods for Engineers	3-0-0-9
SEE-620: Heat Driven Cooling Systems	3-0-0-9
SEE-621: Biomass Conversion and Biorefineries	3-0-0-9
SEE-622A: Sustainable Energy- Enabling Net Zero Emissions	3-0-0-9
SEE-623: Fuel Cell Electrical Energy Systems	3-0-0-9
SEE-624A: Design Strategies for Net-Zero Energy Buildings	3-0-0-9
SEE-625: Structural, Microstructural and Spectroscopic Characterization of Materials	3-0-0-9
SEE-626M: Ecological Principles and Biodiversity for Sustainability	3-0-0-5
SEE-627: Electric Mobility	3-0-0-9
SEE-628: Policy Processes and Analytical Methods: Application to Climate Policies	3-0-0-9
C. Open Electives (Maximum 1 courses from the following list)**	
MBA683: Power Sector Reform & Regulation	3-0-0-10
MBA782A: Renewable Energy – Economics, Policy, and Regulation	3-0-0-5
MBA681: Energy and Carbon Markets: Economics, Policy, and Regulation	3-0-0-10

- **Total Minimum credits requirement is 27**
- A student must take the compulsory course and minimum 2 courses from the Department Electives remaining list in which maximum one course is allowed from MBA courses (MBA681A, MBA683A, MBA782A).
- For example, other than compulsory course, a student can take maximum 1 courses from the following list.