



MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
 (Formerly WEST BENGAL UNIVERSITY OF TECHNOLOGY)
 Main Campus: NH 12, Haringhata, Post Office - Simhat, Police Station – Haringhata, Pin - 741249
 City Campus: BF-142, Sector -I, Salt Lake, Kolkata -700 064

M.Tech in Renewable Energy

Course Structure

1st year Semester I:

Theoretical

Code	Course title	L	Credit
RE01	Conventional energy sources (Fossil Energy)	03	03
RE02	Solar energy (Photovoltaic + Thermal)	03	03
RE03	Nuclear energy (Including fusion)	03	03
RE04	(Biomass, Wind power, Tidal, Ocean energy)	03	03
RE05	Power system analysis	02	02
RE06/ Elective	Safety & Disaster Management	02	00
Total Theoretical			14

Practical / Laboratory

Code	Course title	L	Credit
RE51	Energy Technology Lab	04	02
RE52	Power Measurement Laboratory	04	02
Total			04

1st year Semester II:**Theoretical**

Code	Course title	L	Credit
RE07	Geo thermal energy, Hydropower, Hydrogen and Fuel cell cleaner fuel, Quantum dot	03	03
RE08	Renewable energy generation, storage, cost analysis	03	03
RE09	Materials and devices for energy conversion	03	03
RE10	Renewable Energy Management and sustainability	03	03
Theoretical Total			12

Practical

Code	Course title	L	Credit
RE53	Solar energy lab	04	02
RE54	Renewable energy lab	04	02
RE55	Seminar	04	02
Total			06

2nd year Semester III:**Theoretical**

Code	Course title	L	Credit
RE11 / Elective	Wastes to energy/ Recent advances in solar photo voltaics/ Environment impact assessment/ Composite materials	03	03
RE12	Research methodology and Intellectual Property right	03	03
RE13	Renewable energy policy and regulation	02	02
Total Theoretical			08

Practical

Code	Course title	L	Credit
RE56	Industrial project	01	08

2nd year Semester IV:**Practical**

Code	Course title	L	Credit
RE57	Research project		12
RE 58	Grand viva		04
Total			16