BACHELOR OF SCIENCE IN
RENEWABLE AND SUSTAINABLE ENERGY ENGINEERING

جامعة أبوظبي
Abu Dhabi University
College of Engineering

V: 042025

Curriculum

COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE
General Education Requirements: 21 Credit Hours					
ARL 100	Communication Skills in Arabic I	ENG 200	English II	FWS 205	UAE and GCC Society
FWS 305	Technical Communications for Work Place	FWS 310	Fundamentals of Innovation and Entrepreneurship	ISL 100	Islamic Culture
MTT 102	Calculus I	STT 100	General Statistics		
Degree Requirements: 42 Credit Hours					
RSN200	Intro. to Renewable and Sustainable Energy Engineering	MTT 200	Calculus II	IEN220	Probability and Statistics
MTT 204	Introducation to Linear Algebra	MTT 205	Differential Equations	PHY 102	Physics and Engineering Applications I
PHY 102L	Physics and Engineering Applications I Lab	PHY 201	Physics and Engineering Applications II	PHY 201L	Physics and Engineering Applications II Lab
CSC 201	Computer Programming I	CHE 205	General Chemistry I	CHE 201L	Chemistry lab
COE101	Introductory Artificial Intelligence	COE 202	Engineering Ethics, Economy, and Law		
Major Requirements: 76 Credit Hours					
RSN215	Engineering Mechanics	RSN325	Internet of Energy Efficient Things	RSN301	Energy Materials
MEC320	Thermodynamics I	MEC410	Control Systems	MEC420	Heat Transfer
MEC350	Fluid Mechanics	CEN201	Electric Circuits I	EEN220	Electric Circuits II
CEN304	Electronic Devices and Circuits	CEN320	Signals and Systems	EEN441	Photovoltaics and Solar Energy
EEN345	Power Systems	RSN399i	Internship in Renewable & Sustainable Energy Engineering I	RSN399ii	Internship in Renewable & Sustainable Energy Engineering II
RSN450A	Renewable & Sustainable Energy Eng'g Design Project I	RSN450B	Renewable & Sustainable Energy Eng'g Design Project II	RSN323	Modeling and Simulation of Energy Systems
RSN404	UAE Energy Regulations and Standards	RSN352	Thermal Energy	RSN460A	Hybrid Smart Vehicles Project –Materials and Energy
RSN460B	Hybrid Smart Vehicles Project – MEC Design	RSN460C	Hybrid Smart Vehicles Project – AI Design	RSN480	Energy-Efficient Green Building Design
RSN455	Wind Energy	RSN477	Nuclear Energy	RSN411	Grid Integration of Renewable Energy
RSN485	Energy Storage				
Major and Open Electives: 9 Credit Hours					
ME1	Major Elective I	ME2	Major Elective II	OE1	Open Elective I