Curriculum
Renewable Engineering

INTERNATIONAL ECOENERGY ACADEMY

First Semester

Code	Name of the lesson	compulsory/arbitrary	Credit
HF-B02	Foreign language	compulsory	6
İPF-B01	Mathematics	compulsory	6
HFS-B02	Sustainabledevelopment	compulsory	6
İPF-B04 b	Physics	compulsory	6
İPF-B06 b	Chemistry	compulsory	6

Second Semester

Code	Name of the lesson	compulsory/arbitrary	Credit
ENGR102	Introduction to Engineering	compulsory	6
Math252	Integral Calculus	compulsory	6
WRI122	Argumentative Writing	compulsory	6
CHE260	Electrochemistry for Renewable	compulsory	6
ENGR267	Advanced Eng. Programming	compulsory	6

Third Semester

Code	Name of the lesson	compulsory/arbitrary	Credit
MATH254N	Vector Calculus	compulsory	6
SPE111	Public Speaking	compulsory	6
WRI227	Technical Report Writing	compulsory	6
EE321	Electronics	compulsory	6
MATH341	Linear algebra	compulsory	6

Fourth Semester

Code	Name of the lesson	compulsory/arbitrary	Credit
REE253	Electromechanical Energy Conversion	compulsory	6
EE355	Control Systems Design	compulsory	6
ENGR355	Thermodynamics	compulsory	6
REE	Renewable Energy Engineering	compulsory	6
EE	Power Electronics	compulsory	6

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Fifth Semester

Code	Name of the lesson	compulsory/arbitrary	Credit
MECH323	Heat Transfer	compulsory	6
REE	Renewable Energy Engineering Elective	compulsory	6
REE331	Fuel Cells	compulsory	6
ENGR465	Capstone Project	compulsory	6
REE	Renewable Energy Engineering	compulsory	6

Sixth Semester

Code	Name of the lesson	compulsory/arbitrary	Credit
REE412	Photovoltaic Systems	compulsory	6
	Green building	compulsory	6
REE4XX	Senior Sequence	compulsory	6
ENGR465	Capstone Project	compulsory	6
REE	Renewable Energy Engineering	compulsory	6

Seventh Semester

Code	Name of the lesson	compulsory/arbitrary	Credit
REE413	Electric Power Conversions Systems	compulsory	6
ENGR465	Capstone Project	compulsory	6
REE	Renewable Energy Engineering	compulsory	6
REE463	Energy Systems Instrumentation	compulsory	6
	Energy efficiency	compulsory	6

EighthSemester

Code	Name of the lesson	compulsory/arbitrary	Credit
	Thesis		30
	Thesis		30