CURRICULUM 2014

1st Semester

No	CODE	COURSES	CREDIT
1	DDE 50114	Seminar for M.Eng / M.Sc (Energy or Environmental Technology & Management)	1
2	DDE 50214	Research Methodology	2
3	DDE 50314	Energy and Environmental Economics and Policy	3
4	DDE 50414	Energy and Environmental Management and Planning	3
5	DDE 50514	Project Implementation and Control	1
6	DDE 50614	Energy Technology	2
7	DDE 50714	Rewenable Energy Technologies	3
Total			**15**

2nd Semester

A. For Energy Technology and Management

No	CODE	COURSES	CREDIT
1	DDE 50814	Fuels and Combustion	3
2	DDE 50914	Energy System Analysis and Engineering	3
Elective Course			
A. Technology-oriented courses (at least one course must be selected from following list)			
3	DDE 51014	Computational fluid dynamics	3
4	DDE 51114	Power Plant Engineering	3
5	DDE 51214	Clean technology for solid fuels	3
6	DDE 51314	Advanced Transport Phenomena	3
7	DDE 51414	Natural Gas Utilization Technology	3
8	DDE 51514	Energy from Biomass	3
9	DDE 51614	Hydrogen and fuel cell technologies	3
10	DDE 51714	Catalytics processes and reaction engineering	3
11	DDE 51814	Renewable Energy technologies	3
12	DDE 51914	Selected topics in energy and environment 1	3
13	DDE 52014	Energy Management in Building	3
14	DDE 52114	Enviromental Pollution Control Technology	3
B. Management Oriented Course (at least one course must be selected from following list)			
15	DDE 52214	Project Management	3
16	DDE 52314	Energy Management in Industry	3
17	DDE 52414	Energy Management in transportation	3
C. Elective			
18		Elective As Recommended by Advisor	3
Total			**15**

B. For Enviromental Technology and Management

No	CODE	COURSES	CREDIT
1	DDE 52514	Atmospheric Science	3
2	DDE 52614	Life cycle Assesment	3
3	DDE 52714	Biotechnology for energy and environment	3
4	DDE 52814	Biogheochemistry	3
Elective Course			
A. Technology-oriented courses (at least one course must be selected from following list)			
5	DDE 52914	Sustainable Bio-energy Technologies	3
6	DDE 53014	Atmospheric Boundary Layer Science	3
7	DDE 53114	Atmospheric Dynamics	3
8	DDE 53214	Air Pollution Control	3
9	DDE 53314	Air Pollution Modeling	3
10	DDE 53414	Enviromental Modeling	3
11	DDE 53514	Waste Treatment Technology	3
12	DDE 53614	GIS and Remote Sensing	3
13	DDE 53714	Climate Change and The Ecosistem	3
14	DDE 53814	Biotechnology for Energy and Environment	3
15	DDE 53914	Climate Change Policy	3
B. Management Oriented Course (at least one course must be selected from following list)			
16	DDE 52214	Project Management	3
17	DDE 52314	Energy Management in Industry	3
18	DDE 52414	Energy Management in transportation	3
C. Elective			
21		Elective As Recommended by advisor	3
Total			**15**

3rd Semester

No	CODE	COURSES	CREDIT
PLAN A			
1	PDE 69914	Thesis (Energy or Enviromental Technologies & Management)	6
PLAN B			
1	PDE 69914	Internship	6
2	PDE 69914	International Internship	6
Total			**6**

4th Semester

No	CODE	COURSES	CREDIT
PLAN A			
1	PDE 69914	Thesis (Energy or Enviromental Technologies & Management)	6
PLAN B			
2	PDE 69914	Research Study	6
Total			**6**

The total of credits of semester 1 - 4 = 42 credits