Course Information	
Course title	Energy Materials
Semester	114-2
Department	
Instructor	CHUN WEI CHEN
Administrative Curriculum Number	MSE 5035
Teaching Curriculum Number	527 U3190
Class	
Credits	3
Full/Half Yr.	Half
Required/Elective	Elective
Time	Tuesday 7,8,9(14:20~17:20)
Remarks	The course is conducted in English.
Ceiba Web Server	
Table of Core Capabilities and Curriculum Planning	
Course Syllabus	
Course Description	
Course Objective	
Course Requirement	
Office Hours	
References	
Designated reading	

Grading

No.	Item	%	Explanations for the conditions
1.	Homework	0 %	
2.	Short essay	10 %	
3.	Midterm	35 %	
4.	Final presentation + report	25 %	
5	Final exam	30 %	

Progress		
Week	Date	Topic
Week 1	2/15	Fundamental physics of energy materials (I)
Week 2	2/22	Fundamental physics of energy materials (II)
Week 3	3/1	Photovoltaic materials (I)
Week 4	3/8	Photovoltaic materials (II)
Week 5	3/15	Artificial photosynthesis (Solar to Fuel)
Week 6	3/22	Thermoelectric materials
Week 7	3/29	Midterm exam
Week 8	4/5	National holiday (Term paper)
Week 9	4/12	Fundamental of Electrochemistry for energy applications (I)
Week 10	4/19	Fundamental of Electrochemistry for energy applications (II)
Week 11	4/26	Electrocatalysis for sustainable energy production
Week 12	5/3	Fuel cell
Week 13	5/10	Energy storage (batteries)
Week 14	5/17	Advanced characterization tools for energy material research
Week 15	5/24	Final report and presentation
Week 16	5/31	Final exam
Week 17	6/7	