



AGH

AGH UNIVERSITY OF SCIENCE
AND TECHNOLOGY

Faculty of: Energy and Fuels

Field of study: Chemical Technology Study level: Second-cycle studies Form and type of study: Full-time studies

Specialty: Clean Fossil and Alternative Fuels Energy Annual: 2017/2018 Lecture language: English

Code	Module name	Lectures	Auditorium classes	Laboratory classes	Project classes	Conversation seminar	Seminar classes	Practical classes	Fieldwork classes	Workshops	Others	E-learning	ECTS	E
Semester 1														
CFAFE - semester 1													22	
The rules for selecting groups/modules: All subject of the group														
STC-2-101-CF-s	Environmental Protection in Energy Sector	30	0	15	0	0	0	0	0	0	0	0	3	No
STC-2-102-CF-s	Computer modelling of technological processes	0	0	20	0	10	0	0	0	0	0	0	2	No
STC-2-103-CF-s	Advanced coal technologies	20	0	0	25	0	0	0	0	0	0	0	4	Yes
STC-2-104-CF-s	Bussiness planning in energy sector	15	0	0	30	0	0	0	0	0	0	0	5	Yes
STC-2-105-CF-s	Unconventional Hydrocarbons	15	0	0	15	0	0	0	0	0	0	0	2	No
STC-2-106-CF-s	Chemistry of coal	15	0	15	0	0	0	0	0	0	0	0	2	No
STC-2-108-CF-s	Chemical reactors	20	25	0	0	0	0	0	0	0	0	0	4	Yes
Elective block CFAFE - semester 1													8	
The rules for selecting groups/modules: Students choose subjects for 8 ECTS														
STC-2-109-CF-s	Intellectual property rights	10	0	0	20	0	0	0	0	0	0	0	2	No
STC-2-110-CF-s	Students Research Group	0	0	0	0	0	0	45	0	0	0	0	4	No
STC-2-111-CF-s	Planning and forecasting in energy sector	15	0	15	15	0	0	0	0	0	0	0	3	No
STC-2-112-CF-s	Sustainable energy development	15	0	0	30	0	0	0	0	0	0	0	3	No
STC-2-113-CF-s	Heat and mass transfer processes in energy sector	20	25	0	0	0	0	0	0	0	0	0	3	No
STC-2-114-CF-s	Biomass in Energy Applications	10	0	20	15	0	0	0	0	0	0	0	3	No
STC-2-115-CF-s	Energy policy	15	0	0	30	0	0	0	0	0	0	0	3	No
STC-2-116-CF-s	Modern environmental analytics	15	0	30	0	0	0	0	0	0	0	0	3	No

Study programme - Chemical Technology - 2017/2018

Code	Module name	Lectures	Auditorium classes	Laboratory classes	Project classes	Conversation seminar	Seminar classes	Practical classes	Fieldwork classes	Workshops	Others	E-learning	ECTS	E
STC-2-117-CF-s	Mathematical modeling	30	30	0	0	0	0	0	0	0	0	0	4	No
Suma ECTS													30	
Semester 2														
CFAFE - semester 2													21	
The rules for selecting groups/modules: All subject of the group														
STC-2-201-CF-s	Catalysis in fuel industry and air pollution control	30	0	30	0	0	0	0	0	0	0	0	5	Yes
STC-2-202-CF-s	Biotechnology	15	0	15	0	0	0	0	0	0	0	0	2	No
STC-2-203-CF-s	Fluidization and Solid-Gas Systems	30	0	0	15	0	0	0	0	0	0	0	4	No
STC-2-204-CF-s	Gasification	30	0	0	30	0	0	0	0	0	0	0	5	Yes
STC-2-205-CF-s	Carbon dioxide mitigation technologies	15	0	0	0	0	15	0	0	0	0	0	2	No
STC-2-206-CF-s	Advanced liquid biofuels	10	0	20	15	0	0	0	0	0	0	0	3	No
Elective block CFAFE - semester 2													9	
The rules for selecting groups/modules: students choose subjects for 9 ECTS														
STC-2-207-CF-s	Renewable energy	15	0	30	0	0	0	0	0	0	0	0	3	No
STC-2-208-CF-s	Nuclear synergy with coal and chemical processing	15	0	0	0	0	30	0	0	0	0	0	3	No
STC-2-209-CF-s	Fuel cells	15	0	30	0	0	0	0	0	0	0	0	3	No
STC-2-210-CF-s	Low emission combustion	15	15	15	0	0	0	0	0	0	0	0	3	No
STC-2-211-CF-s	Ceramic materials for energy industry	30	0	15	0	0	0	0	0	0	0	0	3	No
STC-2-212-CF-s	CFD modeling with ANSYS Fluent	15	0	30	0	0	0	0	0	0	0	0	3	No
STC-2-213-CF-s	Radioactive elements in power industry and soil pollution control	15	0	20	0	0	10	0	0	0	0	0	3	No
Suma ECTS													30	
Semester 3														
CFAFE - semester 3													30	
The rules for selecting groups/modules: All subject of the group														
STC-2-301-CF-s	Diploma seminar	0	0	0	0	0	30	0	0	0	0	0	10	No
STC-2-302-CF-s	MSc thesis	0	0	0	0	0	0	260	0	0	0	0	20	Yes
Suma ECTS													30	