

## Programme Regulations: 2021/22

**Programme Title: Degree of Master of Science in Sustainable Chemical Engineering**

**Code: 5031F**

Notes:

- (i) These programme regulations should be read in conjunction with the University's Postgraduate (Taught) Progress Regulations and Examination Conventions.
- (ii) A compulsory module is a module which a student is required to study.
- (iii) All modules are delivered in Linear mode unless stated otherwise as Block, eLearning or distance learning.

### 1. Programme structure

- (a) The programme is available for study in full-time mode.
- (b) The period of study for full-time mode shall be one year starting in September.
- (c) The programme comprises modules to a credit value of 180.
- (d) All candidates shall take the following compulsory modules:

#### (e) All candidates shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Mode
CME8019	Energy Management	10	10			7	Block
CME8038	Sustainable Industry	10	10			7	Block
CME8065	Recycling and LCA for Sustainable Materials	10	10			7	Block
CME8064	Research and Communication Skills	20		20		7	Block
CME8097	Chemical Engineering Dissertation	60			60	7	

- (f) Candidates will chose one stream to follow either:
  - (g) Sustainable Chemical Engineering; (h) Environmental management; or (i) Materials.

#### (g) Sustainable Chemical Engineering Stream

Candidates studying the Sustainable Chemical Engineering Stream shall take the following compulsory modules:

Code	Descriptive title	Total Credits	Credits Sem 1	Credits Sem 2	Credits Sem 3	Level	Mode
CME8012	Business and Environmental Management	10		10		7	Block
CME8043	Fuel Cells I	10	10			7	Block
CME8044	Fuel Cells II	10		10		7	Block
CME8118	Stability and Sustainability of Materials	10	10			7	Block

SPG8007	Renewable Energy: Technology for circular and hydrogen economies	10		10		7	Block
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Candidates studying the Sustainable Chemical Engineering Stream shall take 20 credits from the following optional modules:

CME8107	Process Intensification	10	10			7	Block
SPG8027	Project Management Appreciation	10		10		7	Block
CEG8608	Remediating Contaminated Land	10		10		7	Block
SPG8013	Environmental Impact Assessment	10		10		7	Block
CEG8107	Environmental Engineering for Developing Countries	10		10		7	Block

#### (h) Environmental Management Stream

Candidates studying the Environmental Management Stream shall take the following compulsory module:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Level</i>	<i>Mode</i>
CME8012	Business and Environmental Management	10		10		7	Block
SPG8009	Policy Politics and Ethics	10	10			7	Block
SPG8027	Appreciation of Project Management	10		10		7	Block
CEG8112	Air Pollution	10	10			7	Block
SPG8008	Renewable Energy: Biomass and Bioenergy	10		10		7	Block

Candidates studying the Environmental Management Stream shall take 20 credits from the following optional modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Level</i>	<i>Mode</i>
CEG8107	Environmental Engineering for Developing Countries	10		10		7	Block
CEG8608	Remediating Contaminated Land	10		10		7	Block
SPG8013	Environmental Impact Assessment	10		10		7	Block

**(i) Materials Stream**

Candidates studying the Materials Stream shall take the following compulsory modules:

<i>Code</i>	<i>Descriptive title</i>	<i>Total Credits</i>	<i>Credits Sem 1</i>	<i>Credits Sem 2</i>	<i>Credits Sem 3</i>	<i>Level</i>	<i>Mode</i>
SPG8009	Renewable Energy: Policy Politics and Ethics	10	10			7	Block
CME8060	Lifetime Prediction & Design for Reliability	20		20		7	Block
CME8061	Advanced Manufacturing Technology	20		20		7	Block
CME8129	Modelling Materials and Processes	20	20			7	Block

**2. Assessment methods**

Details of the assessment pattern for each module are explained in the module outline.