UNIVERSITY of BRADFORD

Module Descriptor

Advanced MEng Research Project

Module Code:	CPE7010-D
Academic Year:	2018-19
Credit Rating:	40
School:	Department of Chemical Engineering
Subject Area:	Chemical and Process Engineering
FHEQ Level:	FHEQ Level 7 (Masters)
Module Leader:	Dr Nejatollah Rahmanian

Additional Tutors:

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Project supervision	24
Tutorials	24
Directed Study	352

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims

Outline Syllabus

It is not possible to be prescriptive about the activities that each student should undertake in each semester as this relates to the specific investigation being undertaken. The project may take a variety of forms, and may include:
1. Critical reference to previous work on the project topic, competing theories, processes

and methodologies, economic, social and market considerations.
2. Analysis and modelling, which may involve computer aided engineering in its broadest sense.
3. System and organisation design.
4. Manufacture and Implementation.
5. Experimentation, verification and/or other testing and evaluation.
6. Interpretation of results and concluding analysis.
The balance of the elements above will depend on the type of project work undertaken.

Module Learning Outcomes

On successful completion of this module, students will be able to...

1 Make a contribution to knowledge of a specific field of chemical engineering (the exact nature of which depends on the project.

2 Employ current scientific understanding of a chemical or petroleum engineering subject to solve a substantial research problem. Write a lengthy piece of research-based analysis and discussion, structured around a coherent intellectual thesis, and presented in line with scholarly expectations about standards of accuracy, style, and documentation.

3 Interpretation data, solve problems systematically and creatively.

4 Consider any health and safety, ethical or sustainability issues which relate to the particular field of research

Learning, Teaching and Assessment Strategy

Students will be expected to take ownership of their project, employing independent and directed study hours to achieve their project goals. Academic support will be in the form of one to one tutorials with a designated member of academic staff.
Learning methods will depend on the nature of the project being undertaken. Students may engage with advanced Computer Aided Engineering applications, research focused laboratory equipment. Learning support is provided by either their academic supervisor, research or technical staff
Students will prepare a written dissertation outlining their project and associated findings. The structure of the report will depend on the research project undertaken and will be defined in conjunction with academic tutors. Any supporting evidence including computer models, test data, etc. will be submitted as an asset folder with associated table of contents
Students will also present their work in the form of an oral presentation, once in semester 1 as a formative assessment and once in semester 2 as a summative.
Oral feedback will be given throughout the project during timetabled tutorial sessions with the project supervisor.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Formative	Presentation	Oral presentation for formative feedback (sem 1) including peer review	10 minutes	%	No
Summative	Presentation	Oral Presentation with the attendance of the whole chemical engineering team and the peers at the end of Sem 2	20 minutes	20%	No
Summative	Dissertation or Project Report	Dissertation (written report) excluding appendices and references with supporting evidence submitted as a project asset folder	-8000 words	80%	Yes
Formative	Dissertation or Project Report	Progress report (sem 1) for formative feedback	-2000 words	%	No
Referral	Dissertation or Project Report	Dissertation (written report) excluding appendices and references	-8000 words	100%	Yes

Legacy Code (if applicable)

Reading List

To view Reading List, please go to **rebus:list**.