

PROGRAMME DETAILS	
Programme Code: G127-REM	
Department: Petroleum Engineering	
Main Award: MSC - Master of Science	
Full Award Title: Master of Science in Reservoir Evaluation and Management	
Level: Postgraduate Taught	

LOCATION OF STUDY					
Edinburgh	Y	Scottish Borders	N	Orkney	N
Dubai	N	Malaysia	N	Approved Learning Partner	Y
Independent Distance Learners	Y	Collaborative Learning Partner	N	Other	N

ASSOCIATED AWARDS		
Programme Code	Award	Title
G120-REM	PGCERT	Postgraduate Certificate in Reservoir Evaluation and Management
G125-REM	PGDIP	Postgraduate Diploma in Reservoir Evaluation and Management
G127-REM	MSC	Master of Science in Reservoir Evaluation and Management

ACCREDITATION
IMMM and EI

LEARNING OUTCOMES – SUBJECT MASTERY
Understanding, Knowledge and Cognitive Skills
<p>The programme gives the opportunity to develop skills in:</p> <ul style="list-style-type: none"> • Fundamental concepts, principles and theories of the main reservoir engineering and geoscience disciplines (reservoir engineering, reservoir sedimentology, formation evaluation, reservoir simulation, well testing, modelling and management, geomechanics and geophysics) • Use and application of leading computer software tools for design and analysis in reservoir engineering and geoscience • The ethics and standards relevant to professional engineering practice and the transfer of problem-solving skills to a variety of contexts • Integration of theory and practice an application of statistical, scientific and economics skills

Scholarship, Enquiry and Research (Research Informed Learning)
<p>The students are expected to read more deeply into the subjects by independent reading around subjects and by referencing materials provided in classes, tutorials, field work reports and laboratory exercises. This is important in developing study plans, developing research plans and deciding research methods. Students are given multiple opportunities to develop research skills, including internal assessment in taught courses as well as an independent research project.</p>

LEARNING OUTCOMES – PERSONAL ABILITIES

Industrial, Commercial and Professional Practice

There is exposure to industry via seminars, visits to companies, attendance at the EAGE North Britain Student Meeting and during the Group Project where students are expected to participate in industry workshops/seminars on technical, environmental and commercial processes, as well as being assessed by industry visitors and external examiners from industry. Part of the Individual Project involves an appreciation of the business context of the research work.

Autonomy, Accountability and Working With Others

The students learn to develop an appreciation of their role in their studies through self study, individual project and team work during the group project. They are responsible for meeting deadlines for submission of work during all activities both as individuals and as teams.

Communication, Numeracy & Information and Communications Technology

Some internal assessment projects as well as both group and individual research projects require both written and oral presentations to be made by students and these provide opportunities for students to learn about and develop skills in communication and ICT. The nature of the degree involves demonstration of numerical skills in various analytical disciplines, especially as part of problem solving exercises.

APPROACHES TO TEACHING AND LEARNING

Course notes are provided for some courses, however for other courses students are expected to take notes and are provided with powerpoint slide packs. All lecture sessions are reinforced by tutorials or classroom exercises. Coursework is then further used to extend the concepts learned in lectures and notes and to demonstrate the use of problem solving skills by the students. Course notes come with model exams and answers, as well as recommended reading lists or suggestions for further reading. All courses have a VLE page, on which notes, powerpoints, reading lists, past exams, model answers, exercises and assessment are routinely posted for all courses.

EDUCATIONAL AIMS OF THE PROGRAMME

The overall aim of this programme is develop the skills of numerate science and engineering graduates and professionals to work in the international oil and gas industry to the standard required by the petroleum engineering industry. The course is structured to expose the students to the international reputation of the teaching and research activities of the Institute of Petroleum Engineering. The course enables engineers and geoscientists to develop an appreciation of the variety of disciplines associated with reservoir engineering and geoscience in order to operate in multidisciplinary teams, and encourages the development of the personal qualities and professional competencies of reservoir engineers and geoscientists.

ASSESSMENT POLICIES

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Assessment is based on a combination of examination, project, and coursework. The project work is assessed on written and oral presentations. In the Group Project, part of the assessment is by peer review.

PROGRAMME STRUCTURE

Mandatory Courses

Edinburgh/ Orkney/SBC	Malaysia	Dubai	ALP	IDL	Coll. Partner	Stage	Semester	Phase	Course Code	CourseTitle	SCQF Cr	SCQF Lvl
X			X			1	1		G11FE	Formation Evaluation	15	11
X			X			1	1		G11RC	Reservoir Concepts	15	11
X			X			1	1		G11RE	Reservoir Engineering	15	11
X			X			1	1		G11SE	Reservoir Sedimentology	15	11
X			X			1	2		G11MM	Modelling and Management	15	11
X			X			1	2		G11RG	Rock Mechanics, Geomechanics and Geophysics	15	11
X			X			1	2		G11RS	Reservoir Simulation	15	11
X			X			1	2		G11WT	Reservoir Engineering - Well test Analysis	15	11
X			X			1	3		G11EP	Field Evaluation Project	30	11
X			X			1	3		G11IP	Individual Project	30	11

Optional Courses

Edinburgh/ Orkney/SBC	Malaysia	Dubai	ALP	IDL	Coll. Partner	Stage	Semester	Phase	Course Code	CourseTitle	SCQF Cr	SCQF Lvl
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COMPOSITION NOTES(PG)

8 compulsory taught courses, for MSc 1 team project and 1 individual project.

Mandatory Credits	120
Optional Credits	
Elective Credits	0
Dissertation Credits	60
Total	180

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AWARDS, CREDITS AND CRITERIA(PG)				
Awards, Credits and Levels				
	Overall Credits	Specific Requirements		
Masters Degree	180	180 SCQF credits including a minimum of 150 credit at Level 11		
Postgraduate Diploma	120	120 SCQF credits including a minimum of 90 credit at Level 11		
Postgraduate Certificate	60	60 SCQF credits including a minimum of 40 credit at Level 11		
Award Requirements				
	Total Course Passes	Overall Mark	Overall Grade	Basis of Overall Mark/Grade
Master (Distinction)	8+2 projects	70	A	Weighted Average greater than or equal to 70% over 8 courses and 2 projects at grades A-B.
Master	8+2 projects	50	C	Weighted Average greater than or equal to 50% over 8 courses at grades A-C plus 2 projects at minimum grade C.
Diploma (Distinction)	N/A			N/A
Diploma	8	40	D	Weighted Average greater than or equal 40% over 8 courses at grades A-D
Certificate	4	40	D	Weighted Average greater than or equal 40% over 4 courses at grades A-D

DURATION OF STUDY		
IN MONTHS	Full-time	Part-time
Masters	12	24
Diploma	9	15
Certificate	6	12

RE-ASSESSMENT (PG)
<p>1. A student who has been awarded a Grade E or F in a course may be re-assessed in that course. A student who has been awarded a Grade D in a course may be re-assessed in that course in order to proceed to or be eligible to receive the award of Masters.</p> <p>2. A student shall be permitted only one re-assessment opportunity in a maximum of three taught courses. The opportunity for re-assessment in four or more taught courses shall be at the discretion of the Progression Board.</p> <p>3. Any further re-assessment opportunities in a course will require the approval of the Postgraduate Studies Committee.</p> <p>4. A student may be permitted, at the discretion of the Progression Board, to be re-assessed in the dissertation, project or other supervised research component of the course of study.</p>

PROGRESSION TO DISSERTATION/PROJECT
In accordance with University Regulations, to progress to Masters level a minimum of Grade C is required