

DEGREE OF BACHELOR OF ENGINEERING IN ENGINEERING(MECHANICAL WITH OIL & GAS STUDIES) (07H3H852)

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Bachelor of Engineering

All the courses listed below are prescribed for this degree

| PROGRAMME YEAR 1 – 120 Credit Points | | | | | |
|---|---|---------------|---|-----------------------------------|---------------|
| Term 1 | | | Term 2 | | |
| Course Code | Course Title | Credit Points | Course Code | Course Title | Credit Points |
| PD 1002 | Getting Started at the University of Aberdeen | 0 | EG 1504 | Engineering Mathematics 1 | 15 |
| EG 1008 | Principles of Electronics | 15 | | | |
| EG 1010 | CAD and Communication in Engineering Practice | 15 | EG 1510 | Fundamental Engineering Mechanics | 15 |
| EG 1012 | Fundamentals of Engineering Materials | 15 | EG 1513 | Circuit Design and Analysis | 15 |
| Plus 15 credit points from courses of choice at Levels 1 or 2 | | | Plus 15 credit points from courses of choice at Levels 1 or 2 | | |

| PROGRAMME YEAR 2 – 120 Credit Points | | | | | |
|---|------------------------------------|---------------|---|--|---------------|
| Term 1 | | | Term 2 | | |
| Course Code | Course Title | Credit Points | Course Code | Course Title | Credit Points |
| EG 2004 | Fluid Mechanics and Thermodynamics | 15 | EG 2501 | Design and Computing in Engineering Practice | 15 |
| EG 2011 | Process Engineering | 15 | EG 2503 | Electrical and Mechanical Systems | 15 |
| EG 2012 | Engineering Mathematics 2 | 15 | EG 2513 | Solids and Structures | 15 |
| Plus 15 credit points from courses of choice at Levels 1 or 2 | | | Plus 15 credit points from courses of choice at Levels 1 or 2 | | |

| PROGRAMME YEAR 3 – 120 Credit Points | | | | | |
|--------------------------------------|-------------------------------------|---------------|-------------|-------------------------------|---------------|
| Term 1 | | | Term 2 | | |
| Course Code | Course Title | Credit Points | Course Code | Course Title | Credit Points |
| EG 3007 | Engineering Analysis and Methods 1A | 15 | EG 3505 | Engineer in Society | 10 |
| | | | EM 3511 | Dynamics 1 | 15 |
| EM 3015 | Stress Analysis A | 15 | EM 3521 | Engineering Thermodynamics | 10 |
| EM 3019 | Fluid Mechanics | 15 | EM 3522 | Design of Mechanical Elements | 10 |
| EM 3028 | Engineering Materials | 15 | EP 3595 | Drilling and Well Engineering | 15 |

| PROGRAMME YEAR 4 – 120 Credit Points | | | | | |
|--------------------------------------|---|---------------|---|--|---------------|
| Term 1 | | | Term 2 | | |
| Course Code | Course Title | Credit Points | Course Code | Course Title | Credit Points |
| EM 40JP | Dynamics 2 | 15 | EG 45PC OR EG 45PD OR EG 45PA | Individual Project (BEng) | 45 |
| EM 4011 | Fluid Dynamics | 15 | | Industrial Individual Project (BEng) | |
| EM 4013 | Nonlinear Solid Mechanics | 15 | | Individual Project Abroad (BEng) | |
| EP 4012 | Petroleum Production Engineering and Technology | 15 | EG 4578 | Group Design Project (BEng) (see note 5) | 15 |

PLEASE SEE OVER →

| Notes | |
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| 1. | This programme is accredited by the IMechE as partially satisfying the educational base for a Chartered Engineer (CEng). A programme of accredited Further Learning will be required to complete the educational base for CEng. This programme would fully satisfy the educational base for Incorporated Engineer (IEng) registration. |
| 2. | All course choices at Level 2 and above are subject to students holding the appropriate pre-requisites. |
| 3. | Candidates seeking entry to the Junior Honours programme (Programme Year 3) must have accumulated, by award or recognition, or been exempted from, at least 240 credit points at levels 1 and 2, including all courses prescribed for this degree programme. Candidates who do not meet this progression requirement but who do meet the requirements for progression to Programme Year 3 of the DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING (GENERAL) may transfer to this programme with a view to transferring back to an honours programme for the commencement of Programme Year 4. |
| 4. | When completing registration for Programme Year 4, candidates registered for this programme will be registered for either EG 45PC Individual Project (BEng) or EG 45PA Individual Project Abroad (BEng). Candidates who are allocated an Industrial Project through the project allocation conducted during Term 1 will then be transferred to EG 45PD Industrial Individual Project (BEng) as necessary. |
| 5. | Candidates undertaking EG 45PA Individual Project Abroad (BEng) or EG 45PD Individual Industrial Project (BEng) will undertake EG 4578 Group Design Project (BEng) remotely from their host institution. |