

## DEGREE OF BACHELOR OF ENGINEERING IN ENGINEERING (MECHANICAL) (07H30052)

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 1510                                                       | Fundamental Engineering Mechanics | 15            |
| EG 1010                                                       | CAD and Communication in Engineering Practice | 15            | EG 1513                                                       | Circuit Analysis and Design       | 15            |
| EG 1012                                                       | Fundamentals of Engineering Materials         | 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            | EA 3518     | Mechanics of Structures       | 15            |
| EM 3015                              | Stress Analysis A                   | 15            | EG 3505     | Engineer in Society           | 10            |
| EM 3019                              | Fluid Mechanics                     | 15            | EM 3511     | Dynamics 1                    | 15            |
| EM 3028                              | Engineering Materials               | 15            | EM 3521     | Engineering Thermodynamics    | 10            |
|                                      |                                     |               | EM 3522     | Design of Mechanical Elements | 10            |

| PROGRAMME YEAR 4 – 120 Credit Points |                                  |               |                                           |                                          |               |
|--------------------------------------|----------------------------------|---------------|-------------------------------------------|------------------------------------------|---------------|
| Term 1                               |                                  |               | Term 2                                    |                                          |               |
| Course Code                          | Course Title                     | Credit Points | Course Code                               | Course Title                             | Credit Points |
| EM 4011                              | Fluid Dynamics                   | 15            | EG 45PC<br>OR<br>EG 45PD<br>OR<br>EG 45PA | Individual Project (BEng)                | 45            |
| EM 40JP                              | Dynamics 2                       | 15            |                                           | Industrial Individual Project (BEng)     |               |
| EM 4012                              | Heat, Mass and Momentum Transfer | 15            |                                           | Individual Project Abroad (BEng)         |               |
| EM 4013                              | Nonlinear Solid Mechanics        | 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 (MECHANICAL) 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 Industrial Individual Project (BEng) will undertake EG 4578 Group Design Project (BEng) remotely from their host institution.                                                                                                                                                                                                                                                                                                                                                                                     |