

## DEGREE OF BACHELOR OF ENGINEERING IN ENGINEERING (ELECTRONIC AND SOFTWARE) (07H6H452)

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Master 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             |             |                                   |               |
| CS 1032                              | Programming 1                                  | 15            | CS 15327    | Object Oriented Programming       | 15            |
| EG 1008                              | Principles of Electronics                      | 15            | EG 1504     | Engineering Mathematics 1         | 15            |
| EG 1010                              | CAD and Communications in Engineering Practice | 15            | EG 1510     | Fundamental Engineering Mechanics | 15            |
| EG 1012                              | Fundamentals of Engineering Materials          | 15            | EG 1513     | Circuit Analysis and Design       | 15            |

| PROGRAMME YEAR 2 – 120 Credit Points |                                             |               |             |                                              |               |
|--------------------------------------|---------------------------------------------|---------------|-------------|----------------------------------------------|---------------|
| Term 1                               |                                             |               | Term 2      |                                              |               |
| Course Code                          | Course Title                                | Credit Points | Course Code | Course Title                                 | Credit Points |
| CS 1029                              | Modelling and Problem Solving for Computing | 15            | CS 2506     | Human-Computer Interaction                   | 15            |
| CS 2019                              | Databases and Data Management               | 15            | CS 2522     | Algorithms and Data Structures               | 15            |
| CS 2020                              | Software Programming                        | 15            | EG 2501     | Design and Computing in Engineering Practice | 15            |
| EG 2012                              | Engineering Mathematics 2                   | 15            | EG 2514     | Electronic Systems                           | 15            |

| PROGRAMME YEAR 3 – 120 Credit Points |                                        |               |             |                                                |               |
|--------------------------------------|----------------------------------------|---------------|-------------|------------------------------------------------|---------------|
| Term 1                               |                                        |               | Term 2      |                                                |               |
| Course Code                          | Course Title                           | Credit Points | Course Code | Course Title                                   | Credit Points |
| CS 3028                              | Principles of Software Engineering     | 15            | CS 3528     | Software Engineering and Professional Practice | 15            |
| EE 3053                              | Signals, Systems and Signal Processing | 15            | EE 3580     | Digital Systems                                | 15            |
| EE 3093                              | C/C++ Programming                      | 15            | EE 3576     | Communications Engineering 1                   | 10            |
| EG 3007                              | Engineering Analysis and Methods 1A    | 15            | EE 3579     | Electrical and Electronics Engineering Design  | 10            |
|                                      |                                        |               | EG 3505     | Engineer in Society                            | 10            |

| PROGRAMME YEAR 4 – 120 Credit Points |                                   |               |                                           |                                          |               |
|--------------------------------------|-----------------------------------|---------------|-------------------------------------------|------------------------------------------|---------------|
| Term 1                               |                                   |               | Term 2                                    |                                          |               |
| Course Code                          | Course Title                      | Credit Points | Course Code                               | Course Title                             | Credit Points |
| CS 4028                              | Security                          | 15            | EG 45PC<br>OR<br>EG 45PD<br>OR<br>EG 45PA | Individual Project (BEng)                | 45            |
| CS 4096                              | Operating Systems                 | 15            |                                           | Industrial Individual Project (BEng)     |               |
| EE 4011                              | Optical Systems and Sensing       | 15            |                                           | Individual Project Abroad (BEng)         |               |
| EE 4013                              | Computer and Software Engineering | 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 IET 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. This programme will seek accreditation from the BCS at the earliest opportunity.                                                                                                                                                                                        |
| 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 (ELECTRICAL AND ELECTRONIC) may transfer to this programme with a view to transferring back to an honours programme for the commencement of Programme Year 4. |
| 4.    | EG4014 will commence in Term 1 and credits will be awarded at the Term 2 on examination diet. It is an expectation that candidates allocate the equivalent of 15 credit points of effort to EG4013 during Term 1 and 15 credit points of effort during Term 2.                                                                                                                                                                                                                                                                                                                                              |