

## **Enrolment Program Structure**

## Program Code – GM8

**Program Name – Bachelor of Mechatronic Systems Engineering (Honours)** 

| First Year  | Course Code | Course Name   | Course Rules   |
|-------------|-------------|---|--|
| Semester 1  |             |   |  |
|             | ENGIN1001   | Professional Engineering                              | EX: ENCOR1005  |
|             | ENGIN1002   | Engineering Physics                                   | EX: ENCOR1021 and ENCOR2100  |
|             | ENGIN1003   | Materials in Engineering                              | EX: ENCOR1110  |
|             | MATHS1001   | Modelling and Change (Introductory Level)             |  |
| Semester 2  |             |   |  |
|             | ENGIN1004   | Engineering Design & Drafting                         | <b>EX:</b> ENCOR1010   |
|             | ENGIN1005   | Engineering Mechanics                                 | EX: ENCOR1110 and ENCOR1021  |
|             | ENGIN1006   | Engineering Computer Modelling                        | <b>EX:</b> ENCOR1021   |
|             | MATHS1005   | Secrets of the Matrix                                 |  |
| Second Year | Course Code | Course Name   | Course Rules   |
| Semester 1  |             |   |  |
|             | ENGIN2001   | Professional Practice                                 | <b>PR:</b> ENGIN1001 or<br>ENCOR1005<br><b>EX:</b> ENCOR3035                 |
|             | ENGIN2101   | Digital Logic and Design                              | PR: ENGIN1002  |
|             | ENGIN2402   | Measurement and Computer<br>Instrumentation           | PR: ENCOR1000 or<br>ENCOR1021 or ENGIN1002<br>EX: ENMTX2020 and<br>ETMEC3260 |
|             | ENGIN2403   | Fluid and Pneumatic Control                           | PR: ENGIN1006 and<br>ENCOR1000 or ENCOR1021<br>ENGIN1002<br>EX: ENMTX2030    |
|             | MATHS2016   | Modelling Continuous Change                           | <b>PR</b> : MATHS1001  |
| Semester 2  |             |   |  |
|             | ENGIN2002   | Engineering Project Management and Sustainable Design | PR: ENCOR1005 or<br>ENGIN1001<br>EX: ENMEC2121 and<br>ENMTX2050              |
|             | ENGIN2303   | Mechanism and Machine Theory                          | PR: ENCOR1000 or<br>ENCOR1021 or ENGIN1005<br>EX: ENMEC2111                  |
|             | ENGIN2404   | Electrical and Electronic Drives and<br>Actuators     | PR: ENCOR1000 or<br>ENCOR1021 or ENGIN1002                                   |



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| ENGIN5405 | Advanced Control Systems<br>Engineering | <b>PR:</b> ENGIN3404 or<br>ENMTX3040<br><b>EX:</b> ENMTX4020 |
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## **Additional Information**

This structure applies to all students.

## Glossary

Semester: designated teaching period.

- **PR:** Pre-requisite, a course/s that must be completed prior to undertaking another course.
- CO: Co-requisite, a course/s that must be completed simultaneously, or prior to, undertaking another course.
- **EX:** Exclusion, a course/s that may not be taken.

