3.4 Bachelor of Technology (BTech) Engineering

Admission Intakes: Each of the BTech Engineering programmes has two intakes in each Academic Year, one for Semester 1 in August and the other for Semester 2 in January of the following year except for the following:

- BTech (Chemical Engineering) offers only one intake in Semester 2 in January.
- BTech (Civil Engineering) and BTech (Supply Chain Management) offer only one intake in Semester 1 in August.

As all students admitted into BTech programmes in Engineering must have the minimum of a recognised polytechnic diploma, all students are granted, upon admission, advanced placement credits of 40 MCs which is equivalent to one year of the four-year full-time degree requirements. As such, all BTech Engineering students are admitted directly as Stage 2 (Year 2) students. Students with additional post-diploma academic qualifications may, on a case-by-case basis, apply and be considered for additional advanced placement credits. The granting of such additional credits will be entirely at the discretion of the University.

The structure and design of each of the BTech programmes in Engineering are based on those of the corresponding four-year full-time Bachelor of Engineering (BEng) programmes offered by the Faculty of Engineering. To qualify for a BTech degree in Engineering, a student must take and pass a minimum of 160 MCs of modules, as tabulated below, and achieve a CAP of at least 2.00.

Table: 160-MC BTech Engineering curriculum structure

	Minimum MCs required
University Level Requirements	
General Education (GE) Modules [1]	20
Sub-total	**20**
Programme Requirements [2]	
Ethics in Engineering	4
Foundation & Major Requirements [3]	105 – 116

	Minimum MCs required
Sub-total	**109 – 120**
Unrestricted Elective Modules [4]	20 – 32
Grand-total	**160 – 161**

Notes:

[1] A limited selection of GE modules (from the wide range available in the University) which can best meet the interests and professional needs of BTech students, will be offered specially in the evenings. The list of modules will be available in the SCALE website in due course.

[2] These are specific to the individual BTech programme and reference should be made to the relevant sections.

[3, 4] 20 MCs of programme requirements and 20 MCs of unrestricted elective requirements will normally be given as Advanced Placement Credits to holders of relevant diploma or higher qualifications.

[4] UEMs enable students to pursue their interests without any restrictions. Students may select any module at any level from among Technical or GE modules to meet this requirement.

Stage Promotion: Students will be deemed to have progressed to the next stage of study if they have obtained at least the number of MCs, including exemptions, as stated below:

To move to Stage 2 (Year 2): 36 MCs
To move to Stage 3 (Year 3): 76 MCs
To move to Stage 4 (Year 4): 112 MC

Degree Requirements & Recommended Study Schedule

3.4.1 Bachelor of Technology (Chemical Engineering)

3.4.2 Bachelor of Technology (Civil Engineering)

3.4.3 Bachelor of Technology (Electronics Engineering)

3.4.4 Bachelor of Technology (Industrial & Management Engineering)

3.4.5 Bachelor of Technology (Mechanical Engineering)

3.4.6 Bachelor of Technology (Supply Chain Management)