COURSE DETAILS

Course Code: F17XO
Full Course Title: Mathematics 1
SCQF Level: 7
SCAF Credits: 15
Available as Elective: No

DELIVERY LEVEL

Undergraduate: Yes  Postgraduate Taught: No  Postgraduate Research: No

Additional Information:

COURSE AIMS

To reinforce fundamental principles of mathematics and to lay the foundation for further acquisition of mathematical knowledge

LEARNING OUTCOMES – SUBJECT MASTERY

Understanding the basic concept, theory and developing calculus skills

Further mastering the theory of multivariate calculus, infinite series and field theory

Ability to using calculus

Preparing for further courses

LEARNING OUTCOMES – PERSONAL ABILITIES

Understanding the differences and connections between basic concepts

Ability to take a global view of analyzing issues and solve problems with learned knowledge

Awareness of using mathematics

Ability of abstract, logical reasoning, spatial imagination computing power and self-learning

SYLLABUS

Limits and continuity
F17XO Mathematics 1

Derivative and its applications

Univariate function integral theory

Differential equations

Analytic geometry

Infinite series

Multivariate function calculus

Multivariate function integral theory

Integral of vector function

COURSE RELATIONSHIPS

N/A

LOCATION AND ASSESSMENT METHODS

<table>
<thead>
<tr>
<th>Edi</th>
<th>SBC</th>
<th>Ork</th>
<th>Dub</th>
<th>Malay</th>
<th>IDL</th>
<th>COLL</th>
<th>ALP</th>
<th>OTH</th>
<th>Method</th>
<th>Weight</th>
<th>Exam Mins</th>
<th>Type</th>
<th>Diet</th>
<th>Synoptic Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Examination</td>
<td>75</td>
<td>100</td>
<td>Assessment</td>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Coursework</td>
<td>25</td>
<td></td>
<td>Assessment</td>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Examination</td>
<td>100</td>
<td>100</td>
<td>Reassessment</td>
<td>Semester 3</td>
<td></td>
</tr>
</tbody>
</table>