**F17XP Mathematics 2**

**COURSE DETAILS**
- **Course Code:** F17XP
- **Full Course Title:** Mathematics 2
- **SCQF Level:** 7
- **SCAF Credits:** 15
- **Available as Elective:** No

**DELIVERY LEVEL**

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<th>Postgraduate Taught:</th>
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**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
F17XP Mathematics 2

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

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<th>SBC</th>
<th>Ork</th>
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