BACHELOR OF HONOURS IN MATHEMATICS

PROGRAMME LEARNING OUTCOMES

A. Knowledge and Understanding

At the end of the programme, students should be able to demonstrate knowledge and understanding of:

A1. Modules related to pure mathematics;

A2. Modules related to applied mathematics

A3. Modules related to Statistics

A4. Modules related to Computations

B. ***Cognitive/Intellectual skills/Application of Knowledge***

At the end of the programme students should be able to:

B1. Apply calculus, geometry and algebra to solve problems;

B2. Apply Differential Equations to solve problems problems;

B3. Apply statistics to solve real life situation problems;

B4. Apply numerical methods in solving problems;

C. ***Communication/ICT/Numeracy/Analytic Techniques/Practical Skills***

At the end of the programme students should be able to:

C1. Apply fundamental notions of mathematics in solving real life problems

C3. Learn mathematical computing skills using modern software such as Matlab and R;

C4. Write a report on mathematical analysis of data;

C5. Use IT skills in major research and commercial statistical packages;

D. ***General transferable skills***

At the end of the programme students should be able to:

D1. Translate question of interest into mathematical hypotheses;

D2. Display and analyse data for specific research questions;

D3. Work as a mathematician expert in multi-professional work communities.