### B120 - BSc Honours Human Physiology

**A: Upon successful completion of this module the graduates in Human Physiology will be able to demonstrate a systematic understanding of:**

- Methods for acquiring, interpreting and analysing biological information through the study of texts, original reports and data sets.
- The subcellular architecture of cells and tissues, including membrane and organelle structure and function in relation to physiological mechanisms.
- How extracellular and intracellular signals regulate physiological mechanisms at the cellular and molecular level and their effect on homeostasis in the whole organism.
- The influence of diseases and environment on organ and body function and the basis of physiological changes involved.
- How physiological techniques can advance knowledge and solve physiological, biomedical, biotechnological and socio-economic problems with an awareness of ethical issues involved.
- How pathological, genetic and environmental factors influence individual physiological mechanisms.
- The relationship between molecular and cellular processes, and evolutionary biology.

**B: Upon successful completion of this module students will be able to:**

- Apply the methods and techniques learned to review, extend and apply knowledge and understanding to initiate and carry out projects.
- Evaluate evidence, arguments and assumptions to reach sound judgements to achieve a solution, or range of solutions, to a problem.

**C: Upon successful completion of this module students will:**

- Be fully aware of relevant ethical implications of proposed courses of actions or situations and take the necessary steps to work within the limits of these.

**D: Upon successful completion of this module students will be able to demonstrate qualities and transferrable skills needed for employment. In particular, they will be able to demonstrate:**

- Initiative
- Personal responsibility
- Decision-making in complex & unpredictable circumstances;
- Problem solving skills that can be applied in many types of employment;
- Lifelong learning skills to address their own learning needs within their discipline and new areas of learning;
- Communicate effectively and confidently to both specialist & non-specialist audiences.