

## **PROGRAMME AIMS AND LEARNING OUTCOMES**

### **The programme aims to:**

- To equip students with the intellectual and practical skills so that they can support managerial decision making and problem solving in organisations.
- To provide students with a solid foundation for future doctoral work in: Decision Sciences, Operational Research, Management Science, Management Statistics and Information Systems.

### **Intended Learning Outcomes of the Programme**

#### **A. Knowledge & Understanding**

Students should be able to:

- Demonstrate a comprehensive understanding of the dimensions of management and decision making contexts and the theoretical basis of Decision Sciences/Operations Research within these contexts.
- Understand and demonstrate critical awareness of appropriate scientific concepts, frameworks methodologies and techniques for supporting decision making in a management context.
- Understand the practical application of Decision Sciences/Operational Research in the real world

#### **B. Intellectual Skills**

Students should be able to:

- Apply appropriate methodologies and techniques for supporting decision making.
- Identify appropriate scientific concepts, frameworks, methodologies and techniques for supporting decision making in an applied context
- Undertake practical and research projects in a logical and rigorous manner
- Critically evaluate published research within Decision Sciences, Operational Research, Management Science, Management Statistics and Information Systems.

#### **C. Practical Skills**

Students should be able to:

- Design and undertake small-scale research projects involving, and critically reflecting on the use of a variety of research methods and their outputs
- Design, plan and implement and reflect and report on a substantial research project of 3-4 months.

#### **D. Transferable Skills and Personal Qualities**

Students should be able to:

- Communicate through written reports and essays (where appropriate)
- Make oral presentations to specialist and non-specialist audiences and participate effectively in such contexts.

- Demonstrate an ability to identify and respond to the views of others and to work effectively and constructively in a team
- Independently gather, sift, synthesize and organize material from a variety of sources (e.g. library and internet) and critically evaluate the extent to which it might be applied to current developments in the field.
- Employ ICT including standard integrated office applications software (e.g. word processor, spreadsheet, presentation) and specialist add-ons or packages (e.g. statistics, optimisation, simulation) to analyse and communicate the results of analysis.
- Autonomously manage time effectively and prioritize activities
- Contribute to their personal professional development through planning, monitoring, peer learning, critical reflection and evaluation.