

## **MODULE: QUANTITATIVE METHODS**

**Semester:** I (Fall)  
**Stage:** I  
**Theme:** Personal Development Skills  
**Number of Credits:** 4 semester credits / 6 quarter units

### **INTRODUCTION**

This module is designed to provide students with the necessary skills to analyse and manipulate numerical business information as a basis for informed decision making.

### **AIMS**

- To demonstrate the widespread applicability of mathematics and statistics as a basis for decision making in a range of business disciplines (e.g. finance, production, marketing, etc.)
- To provide students with the core mathematical skills necessary to support their accurate manipulation and interpretation of numerical data
- To present students with a range of mathematical skills relevant to the business and to the hospitality industry in particular
- To develop the students' confidence in the application of mathematics so that they can readily apply such analysis to support them in their analysis of business information.

### **LEARNING OUTCOMES**

On completion of this module successful students will be able to:

- Recognise the importance of mathematics and its analytical procedures to the proper functioning of business
- Demonstrate essential analytical skills to support an accurate and rigorous approach to decision making.
- Demonstrate the necessary skills to correctly analyse a range of business related numerical information as a basis for informed decision making.

### **ASSESSMENT**

Coursework will account for 50% of the assessment marks and require students to analyse and interpret a range of numerically and statistically based business situations (e.g. financial reports, market reports, sales, production variance reports, etc). These exercises would be presented for completion in tutorials. Other coursework would involve a practical assignment based on actual business data. A final closed book examination will also be held on module completion accounting for 50% of the marks.

#### **Exam – 50%**

Hypothetical questions – commentary, discussion and analysis

Sample questions across a diverse range of business disciplines – commentary, discussion and analysis

**Course Work – 50%**

Assignment– based on actual business data (e.g. published reports, market survey data, etc.) for home solution Time constrained, class / tutorial based questions – followed by supportive commentary, discussion and analysis