

# **Bridging Course for Economics, Management, Finance and the Social Sciences (EMFSS)**

## BUSINESS STATISTICS

This course introduces some of the basic ideas of theoretical statistics, emphasising the application of these methods and the interpretation of tables and results.

Topics covered include basic background of statistics, data collection, data presentation and analysis, distribution.

## MATHEMATICS FOR ECONOMICS AND BUSINESS

This course develops basic mathematical methods and emphasis on applications of the methods to solving problems in economics, management and related areas.

Topics covered include Basic Algebra, Differentiation, Integration, Functions of Several Variables, Matrices and Linear Equation.

## ELEMENTS OF FINANCIAL AND MANAGEMENT ACCOUNTING

This course is designed to introduce students to accounting and financial management. The course is arranged in two sections. The first section introduces and explains financial accounting concepts and conventions, and provides a grounding in double-entry bookkeeping and the preparation of the primary financial statements.

The second section introduces a range of applications and techniques for planning, decision-making and control. These include the design, use and role of accounting information in the management of organisational activities; costing and budgeting; and the design and use of performance measurement systems.

## INTRODUCTION TO BANKING AND FINANCIAL MARKETS

This course is designed to introduce the fundamental principles of finance, focusing on asset valuation, risk and return, and corporate financial decision-making. The first section focuses on asset pricing theory and its practical application in valuing securities traded in financial markets. The second section introduces key principles in corporate finance with an emphasis on how businesses make key financial decisions.

Topics covered include discounting and present value, risk and return, arbitrage, financial markets and securities, banks, mutual and hedge funds, financial statement analysis, the cost of capital, capital structure, venture capital and private equity, initial public offerings, and the valuation of firms and projects.