Course Description

Programme Compulsory Courses

ACF 101 - Principles of Accounting (1)

This course concentrates on basic accounting concepts, principles and assumptions, basic accounting equations, the accounting cycle (journalizing, posting, preparation of a trial balance, financial statement), adjusting entries, the accounting cycle for a merchandising company, computing inventory cost under periodic & perpetual inventory systems.

(Prerequisite: None)

STA 101 - Principles of Statistics

Principle of Statistics (STAT 101) is the capstone, integrative course for all students for two colleges (Administrative and Arts & Science). This exciting, challenging course focuses on how present, describe of statistical data that related with practical life of students. As well as Principle of Statistics taught inferential statistics as correlation and regression to employ it practically. Students use all the knowledge acquired from prior business courses together with this course.

(Prerequisite: MATH 102)

ECO 102 - Principles of Microeconomics

Economics is the study of how people satisfy their wants in the face of limited resources. There are two main branches of economics, microeconomics and macroeconomics. Microeconomics deals with the behavior of individual households and firms and is the subject of this course. This course relates to the functioning of individual industries and the behavior of individual economic decision-making units: business firms and households and explores the decisions that individual businesses and consumers make and how these decisions are coordinated in markets. The course details a study on how households make decisions about what goods to buy and how firms make decisions about what to produce, how to produce and for whom to produce. Examining the behavior of households and firms will give us the necessary insight to understand how the interaction between consumers' demands and producers' supplies determines prices in the marketplace.

(Prerequisite: None)

MATH 102 - Business Mathematics

This course focuses on business mathematics topics such as set theory, distance formula, line equations, matrices, integration and derivation. During this course, the student will learn the various types of functions

and be able to solve and sketch functions. The course will also increase the student's ability and skills in mathematics more generally.

(Prerequisite: None)

ECO 103 - Principles of Macroeconomics

Macroeconomics course is designed as an initial college-level course in macroeconomics and as a foundation for study in the College. Course contents include an analysis of national income and its components, economic indicators, inflation and unemployment, money and banking, stabilization policies, governmental fiscal and monetary policy, and economic growth and world trade. Upon completion of the course, students will be able to generate, interpret, label, and analyze graphs, charts, and data in order to describe and explain economic concepts.

(Prerequisite: ECO 102)

POL 110 - Introduction to Political Sciences

The course introduces students to the basic concepts and ideas in the field of Political Science. It teaches students the relationship between political science and other disciplines, and develops their understandings of key concepts such as 'the state', 'government', 'political parties' and 'interest and pressure groups'. The course stress important topics such as the political system, political socialization and public opinion, as well as international relations. It introduces students to the evolution of the international system and foreign policy and international organizations.

(Prerequisite: None)

BA 108 - Principles of Management (1)

This is an introductory course for the study of management and the role it plays in organizations. It introduces students to the ideas of managerial levels, skills and management 'concepts. It develops their understanding about how successful employees and managers operate. The course begins with a historical overview of the management field and evolution of management thought. Additionally the course focuses on the management process/ managerial functions such as planning, organizing, leading, and controlling.

(Prerequisite: None)

BA 218 - Principles of Marketing

This course provides a broad background to the concept of marketing, the role of marketing in an organization and the external environment. It also introduces students to basic, and some advanced,

marketing tools. During the course the student will learn to think like a marketer and will understand how marketing managers' use marketing elements to enable their business organization to gain a competitive advantage.

(Prerequisite: BA108)

BA 307 - Methods of Scientific Research

The course studies the scope and significance of business research. It introduces students to the various aspects of business research; its types, tools and methods and students will learn how to apply business research techniques into real world situations. The course covers topics such as the identification of a topic by the student, proposition of hypothesis, formulation of research inquiries, development of literature review, select research design and methodologies. Additionally students will learn data collection techniques; primary and secondary data with application to specific problems, scaling and research instrument design and sampling design.

(Prerequisite: None)

Programme Compulsory Courses

BA 109 – Principles of Management (2) (E)

The course exposes students to the basic concepts of the organization, its characteristics and legal forms. It focuses on the provision of a comprehensive understanding of the organization functions (production, marketing, finance, human resource, knowledge & information and management). Additionally, it covers the organization's relationship with the surrounding environment.

(Prerequisite: BA 108)

ACF 151 – Financial Management (1)

This course will introduce students to the concepts and tools of financial management. The focus of the course is decision making in a financial context. It therefore examines the techniques that are used in businesses to make decisions that are consistent with the efforts to increase the wealth of the owners of the business in a corporate environment. The topics covered include but are not limited to financial analysis, the time value of money, capital budgeting, risk and return, valuation of future cash flows, valuation of stocks and bonds, and long term financing.

(Prerequisite: ACF 101)

MIS 211 – Management Information Systems

This course presents computer-based solutions to problems encountered in the business environment. It focuses on systems, information systems concepts and technologies. Students will learn the most effective ways to use information systems to achieve competitive advantages for the business. Topics include: information systems types, computer and IT applications, gaining competitive advantage with IT information systems key resources, integrating collaborating environments, E-Commerce, Decision Support Systems, enterprise resource planning, customer relationship management, supply chain management, databases and data warehouses.

(Prerequisite: CS 104 + BA 108)

MIS 231 – Programming and Data Structure

This course introduces the students to the concepts of structured programming together with programming tools. It also introduces them to Data Structures types, the primitive operations associated with each type, and C++ implementation for some of the primitive operations. Topics to be covered in this course are: Algorithms, C++ Programing language tools (Input Output, Selection, Repetition, Methods and Matrices), Data structures types (Linked list, Stacks, Queues and trees).

(Prerequisite: CS 104)

MIS 332 – Visual Programming

This course introduces to the students the concepts of Visual Basic (VB) Programming, its tools, its elements and its usage in problem solving. The student will learn how to design, write and implement program with VB programming language. The topics covered in this course are the user interface with its tools (dialog boxes, text boxes, buttons, list boxes, combo boxes, radio buttons, check boxes, etc.) loops, selections statement, and timers. The student also will learn how to us VB tools to do animation, create a web browser, and connect a visual basic programme with a database.

(Prerequisite: MIS 231)

BA 238 – Human Resources Management (E)

This course introductory course in the field of Human Resource Management (HRM) is designed to introduce students to detailed knowledge and understandings associated with the field. The course covers the main theories, principles and concepts associated with HMR. The course also exposes students to the major challenges and problems encountered in the HRM environment and introduces them to the tools, techniques

and practices used by HRM professionals to deal with problems and issues encountered in the workplace, some of which may be undefined.

(Prerequisite: BA 109)

BA 241 – Quantitative Methods in Management (E)

This course provides an introduction to the concept, theories and principles associated with and application of quantitative methods in Management. It develops the mathematical and statistical competence necessary to facilitate progression in areas such as Operation Management necessary for decision making. The course builds on concepts and analytical techniques taught in STA 101 Principles of Statistics, developing more advanced quantitative methods, such as, Linear Programming and Sensitivity and Duality Theory. Quantitative methods are used throughout business, government and the non-profit sector of the economy. Effective participation in decision-making must be able to, at a minimum, understand and interpret statistical reports.

(Prerequisite: STA 101)

MIS 240 – Information Systems Infrastructures

This course engages students in an advanced study of the Information technology infrastructure required to build and implement information systems. Topics related to operating systems (structure, functionality, types, & security), Computer Networks (Component, Protocols, and Applications), the key features of Cloud computing, and Data centers are covered in this course.

(Prerequisite: MIS 231)

MIS 251 – Information Resources Management

The course aims to extend students' detailed knowledge of the business environment by introducing students to how information resources are managed in business environment. The material covered in this course includes the impact of IT on business, T strategy, IT governance, IT processes, IT planning, and the role of the CIO within the organization.

(Prerequisite: MIS 211)

MIS 312 – E- Decision Support Systems

This course explores the core concepts of decision support systems and investigate the fundamental techniques associated with them to ensure that they can effectively support the decision- making process. It

also develops an understanding of the methodologies, technologies, and modeling used in Decision Support Systems and Business Intelligence.

(Prerequisite: MIS 211)

MIS 314– Integrated Information Systems

The course provides a comprehensive review of enterprise systems, with a particular focus on integrated business processes with enterprise resource planning (ERP) systems. It provides detailed coverage of enterprise systems architecture, data in enterprise systems, and ERP application platforms. This course also covers the key business processes supported by modern ERP systems.

(Prerequisite: MIS 211)

MIS 321 – Information Systems Analysis

This course provides students with an advanced knowledge and understanding of the concepts and practice of information systems analysis. The students will gain skills in Information Systems requirements analysis and logical system specifications. The student will also learn several systematic approaches and tools for the analysis process management and techniques that will enable them to analyze systems in a team environment.

(Prerequisite: MIS 344)

MIS 344– Introduction to Database Systems

This course develops students' knowledge and understanding of database systems. It extends students understanding of approaches to maintenance and manipulation of files by introducing and explaining database systems concepts, database systems evolution, and database types. Entity, attributes, relational database, and database architecture, database modeling methods, data definition, and database manipulation languages such as SQL are comprehensively explained.

(Prerequisite: MIS 240)

MIS 343 – Information Systems Security

This course covers the key principles and practices related to the security of information systems. The course comprehensively covers information security concepts, attacking techniques, security policies, cryptographic tools, authentication systems, access control, and types of malicious software. In addition, the course examines legal and ethical issues related to information systems security.

(Prerequisite: MIS 240)

BA 349 – Operations Management (E)

The course provides students with the advanced knowledge and skills necessary to transform inputs (materials, labor, capital and management) into outputs (products or services) in a manner that explores a firm's value propositions and complies with its business strategy. Topics include: location, product selection and design, capacity planning, process selection, facilities location and design, Scheduling, Aggregate Production Planning, and Material Requirements Planning (MRP), and Modern Manufacturing Systems and Future Plant. The course contributes to students' development as autonomous and responsible professionals in the business environment.

(Prerequisite: BA 109 + BA 241)

MIS 255 – Knowledge Base Management

This course Introduces students to the concepts of Knowledge management and forces driving knowledge management Systems. Students will learn about the issues in knowledge management, knowledge types, knowledge generation, knowledge transfer, knowledge management solutions, knowledge management technologies and the infrastructure of knowledge management systems. Also, this course will acquaint students with the applications of knowledge management systems.

(Prerequisite: MIS 211)

MIS 356–Information Systems Auditing

This course introduces the fundamental concepts of the information systems audit and control function. The main focus of this course is to understand audit controls, the types of controls and their impact on the organization performance. The concepts and techniques used in information technology and information systems audits will be presented. Students will learn audit management; dealing with best practices, standards, regulatory requirements, governing information and controls is addressed.

(Prerequisite: MIS 211)

MIS 361– E-Business

This course provides students with advanced knowledge of technological concepts, economic effects, and structural constitution for electronic business systems such as B2B, B2C, C2C, G2B and any other emerging technology. Enterprise systems solutions, paying techniques, information security issues, clients' relations, social and legal issues will also be covered. The course focuses on how business is carried out electronically through a range of digital platforms.

(Prerequisite: MIS 211)

MIS 363–Special Topics in Information Systems

This course aims to provide students with detailed knowledge of selected topics in information systems that reflect emerging trends or areas of interest in information systems which are not covered in depth in other courses in the Bachelor degree of Management Information Systems (MIS). The course currently examines developments and research in the following topics - Social Media, Internet of Thing, Cloud Computing and Big Data. The course thus gives students knowledge of new and emerging topics related to the use of new and innovative information system technologies, management approaches, integration issues, and relevant contemporary issues which impact on MIS. The course covers areas of knowledge which are of professional interest for information systems practitioners and managers. The contents of the course will be revised periodically (subject to relevant approvals from the College and the University) to incorporate other topics or research which is having or is likely to have a significant impact on information systems development and use.

(Prerequisite: MIS 312 + MIS 314)

MIS 422 – Information Systems Design & Implementation

This course provides students with advanced knowledge and understanding of Information Systems development review, converting new system specification to design, designing effective output, designing effective input, database design, designing effective user interface, designing accurate data entry procedures, design documentation, coding, testing, and getting user approval, user training and system implementation.

(Prerequisite: MIS 321)

MIS 464 – Applied Research in MIS

In this course, students critically apply appropriate research methodologies to develop either a software application with an accompanying research report or a comprehensive research report based on another valid research project selected by the student and validated by the tutor. Typically, the research project undertaken will be oriented to real life business problems or situations. This gives the opportunity for individual student, to take the responsibility of executing applied research with guidance from a supervisor. Student will use knowledge and skills gained in earlier studied courses and implement them in the research. Students will be required to plan their work and meet deadlines, they also need to demonstrate the outcome of the investigation and write a comprehensive report.

(Prerequisite: MIS 462)

MIS 445 – Mobile Computing

This course comprehensively covers all aspects of mobile computing; mobile computing platforms; wireless networks; architectures; security and management; mobile computing applications such as mobile messaging, mobile agents, and sensor applications. It deals with the fundamentals of mobile technology and progressively builds on these to consider more complex topics, including network and wireless communication, mobile computing applications, platforms and middleware, wireless LANs and PANs, wireless security, wireless positioning, and wireless management and support.

(Prerequisite: MIS 240)

MIS 454 – MIS Ethics

This course aims to provide students with a solid grounding on the principles and concepts which underpin a study of ethics and to give them in depth knowledge of how ethical concepts and actions impact on the field of information systems management. The course focuses on the fundamental concepts of ethics, ethical standards of information systems, professionals and users of information systems, ethical issues related to privacy and digital crimes.

(Prerequisite: MIS 240)

MIS 456 – Information Systems Project Management

This course discusses the processes, methods, techniques and tools that organizations use to manage their information systems projects. The course covers a systematic methodology for initiating, planning, executing, controlling, and closing projects. This course assumes that project management in the modern organization is a complex team based activity, where various types of technologies including project management software as well as software to support group collaboration are an inherent part of the project management process. This course also acknowledges that project management involves both the use of resources within the organization as well as others acquired from outside the organization.

(Prerequisite: BA 241)

MIS 462 – Internship

The internship is a pre-arranged, credit-bearing work experience, which allows a student to achieve personal goals that are aligned with the goals of a supervising professional organisation or agency. Internships provide opportunities to explore career options, test career choices, and encourage the development of skills within a chosen field. An internship allows students to relate theory with practical job experience as well as develop new skills that will be transferable to future employers.

(Prerequisite: 90 Credit Hours)

Programme Elective Courses

MIS 210– Financial Information Systems

Financial Information Systems is concerned with how computerized information systems impact financial data capturing, processing, and communicating. This course introduces students to the components of financial information systems i.e. people, technology, procedures, and controls that are necessary to conduct internal and external e-business, with an emphasis on the internal controls over such systems. This course presents problems in the financial environment with their computer-based solution. It focuses on the concepts of information systems and technology applied in a business context and also examines the importance of financial information systems in the detection and prevention of fraud. Students will learn the most effective ways to use information systems in the financial environment. Students will gain advanced understanding of the importance of implementing effective financial information systems in a business context.

(Prerequisite: MIS 211 + ACF 101)

BA 258 – Organization Theory (E)

The course provides students with the advanced knowledge related to organization theory that helps the student in understanding and analysing organizations. This course examines what an organization is and how it functions, why organizations exist, and what objectives they pursue. It also reviews issues related to the life cycle of organizations: how do they grow and survive. The environment in which the organization operates is another important topic. Additionally, the course includes theories and practical information about different types of organizational structures, organizational change, organizational culture and innovation within organizations.

(Prerequisite: BA 109 + ENG 111)

BA 332 – Business Communication

The course introduces students to the concepts of written and oral business communications. This course focuses on the importance of the communication process, its objectives and types. It enables students to achieve competencies in business writing, including good and bad news business letters, memoranda, electronic mail, persuasive messages, formal letters, and formal reports. The course promotes students' capacity to use electronic communication and technology appropriate to contemporary business functions. Additionally, it paves the way for students' own personal development as professionals in the business world.

(Prerequisite: BA 109 + ENG 102)

MIS 436 – Web Applications Development

This course covers the concepts in required to demonstrate critical knowledge of programming web application servers. The student will gain advanced knowledge of the fundamental architectural elements of programming web sites that produce content dynamically. The primary development tools which will be introduced will be HTML, JavaScript and PHP but the course will also cover related topics dealing with content development as necessary so that students may build significant applications.

(Prerequisite: None)

MIS 465 – Business Intelligence

This course introduces the concepts of Business Intelligence (BI) together with its capabilities which include organizational memory capabilities, integration capabilities, presentation capabilities and Business Intelligence tools and techniques. The material in this course covers the various aspects of BI, including the business impacts, technologies, management and development of BI.

(Prerequisite: MIS 255 + BA 108)