

Executive MBA (MIS) of Dhaka University

About :: Department of Management Information Systems (MIS)

Chairman :: Professor Md HASIBUR RASHID

MIS New Beginning:

The department independently begins its academic program at the graduate level. The first batch of the graduate student was from Department of Management Studies. Afterward BBA graduate from Management Studies, Marketing, Accounting and Information System (AIS) and Finance are doing MBA in MIS. This cross-functional approach will broaden the knowledge base of the student and they will become an "Intelligent Graduate". These intelligent graduate will use appropriate information in an effective manner to increase the competitive advantages for the organizations in a globalize business world.

The Department of MIS is empowered to provide teaching for the degree of BBA and MBA, M.Phil, as well as Ph.D. as per rules and regulation of the University of Dhaka. It also will offer special programs, conferences, seminars and short courses. The Department now looks towards fundamentally changing the teaching-learning methods in an endeavor to cope with the changing demands for job-oriented business education and to enable the graduates of the Department to face the challenges in the competitive world of the new millennium.

Degree Offered:

Our academic programs at presents consist of Bachelor of Business Administration (BBA), Regular Master of Business Administration (MBA), Evening Master of Business Administration (EMBA), Master of Philosophy (M. Phil.), and Doctor of Philosophy (Ph.D.).

BBA Program

BBA in MIS is our undergraduate program of 120 credit hours, to be completed in four years divided into eight semesters. It is a terminal degree. Each semester is of 19 weeks of which 15 weeks for class-teaching, one week for break and 3 weeks for holding the semester final examination. Each course trait is of 100 marks. There are two in-course tests of minimum one hour duration each carrying 30% weightage, while a term paper/ quizzes carry 10% weight age. The examination scripts are evaluated by two examiners.

The students of BBA are exposed to various business and information technology related courses in order to enable them to equip themselves with modern knowledge in business and technology.

MBA Program (Regular):

The regular MBA Program is a full-time 48 credit hours professional program designed to meet the needs of the students who want to develop their career as executives or as teachers and researchers. BBA graduates of all departments of Faculty of Business Studies (FBS), DU, will be eligible to get admission into the regular MBA program.

MBA (Evening) Program:

MBA (Evening) Program is an addition to the existing academic programs of the Department of Management Information Systems (MIS). The Academic Council of Dhaka University approved this self-financed program, primarily aimed at helping executives of the business and non business organizations to develop their career, on October 12, 2001.

This Program is uniquely designed to address separately the background of each and every individual student. Generally, a student with Master Degree should be able to complete the program between 18 and 24 months. However, a student must complete the degree within 5 years and one must take at least 2 courses in a semester in normal cases. Graduates in any discipline may apply for appearing at the admission test to be conducted twice a year. The Admission process of EMBA is conducted by the Dean of the Faculty of Business Studies.

Expectedly students with five groups of academic background will seek admission. The groups are (A) students with M.Com. or M.Sc and four year BBA/B.Sc or equivalent degree; (B) students with three year B.Com, BA & B.Sc item; (C) students with sixteen year education other than A above (D) students of any discipline with Bachelor degree other than B above (E) All others graduate. Students in Group-A is normally required to take courses of thirty six credit hours; in Group-B 45 credit hours; in Group-C forty eight credit hours; Group-D fifty one credit hours and in E with sixty credit hours. Every graduating student, after completion of MBA course work, will be required to undergo an internship program for at least three months and write a project paper under the supervision of a teacher.

Dhaka University has decided to offer this course on a self finance basis. The students must contribute the entire cost of administering the program.

M.Phil. and Ph.D. Programs:

Department already approved its M.Phil and Ph. D. programs according to the rules of the University. Masters degree holders in management/business administration from any recognized educational institution may apply for admission, subject to fulfillment of the conditions set by the University. The terms and conditions regarding admission, examination, and other matters relating to these degrees are prescribed by the regulations formulated by the Academic Council and the Syndicate of the University of Dhaka.

Physical Facilities:

The DMIS offers an enjoyable teaching-learning environment, which has been made possible by the existence of some unique physical and related facilities. The facilities include:

- ¢ A well-decorated computer lab that helps provide one student one-computer for computer related classes and simulations.
- ¢ Network system and 24-hours on-line Internet connection in the computer lab.
- ¢ Well-spaced classrooms in a serene natural environment with adequate ventilation and lighting.
- ¢ In-built Microphone System & Multimedia Projectors in all classrooms.
- ¢ Big-sized white boards (no black boards) in all classrooms.
- ¢ Chairs with writing facility for every student.
- ¢ Sophisticated multimedia projectors for visual presentation using computer.
- ¢ Fully air-conditioned all classrooms.
- ¢ Individual furnished room for each faculty member, fitted with Desktop & Laptop computer for individual use.
- ¢ A common specialized library rich in latest-edition books at the 2nd floor of the faculty building.

Library Facilities:

Students have access to the Dhaka University Central Library, which has in its possession some thousands of books. In addition, the Faculty of Business Studies has developed a library, which keeps primarily business and management-related textbooks. Our Department regularly procures need-based books upon recommendation of course teachers and allows the students to use those books through the faculty library.

Curricular and Extra-Curricular Activities:

The Department of MIS encourages its students to interact with each other and to engage in extra curricular activities. The students of different years have organized cultural functions of different occasions. Including departmental all students were arranged "PICNIC-2007" and BBA 1st Batch Students are Published a "Wall Magazine". The department organizes an orientation program cum reception for incoming students regularly. Department organizes a Seminar on "Practitioner view on MIS".

In early 1999, on the basis of the concept paper prepared by the Department of Management, the Faculty of Business Studies passed the resolution to establish the Department of Management Information Systems (MIS) and send the resolution to the University authority for approval.

In late 2004, the University authority approved the proposal and established the Department of Management Information Systems (MIS) and appointed Professor Dr. Abdul Mannan Choudhury as a first chairman of the Department on April 12, 2005.

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Department of Management Information Systems (MIS)

MBA -PROGRAM

Course

First Semester Courses

MIS - 501: Fundamentals of Management Information Systems

MIS - 502: Strategic Management

MIS - 503: Management Science

MIS - 504: Computer Programming (Visual Basic)

MIS - 505: Spreadsheet Analysis and Modeling

MIS - 506: Business Mathematics (W)

MIS - 507: Fundamentals of Computer

MIS - 508: Materials and Quality Management (W)

MIS - 509: Management Thought (W)

W means Waived courses: The students did those in the BBA Program.

Second Semester (Any 5 (Five) Course out of the following)

MIS - 510: Implementation of Information Systems

MIS - 511: Computer Based Simulation System

MIS - 512: Database Management (MS, Access / Fox Pro)

MIS - 513: Systems Analysis and Design

MIS - 514: Internet, Web-Page Development

(HTML and Java) and Network Administration

MIS - 515: Electronic Commerce

MIS - 516: Manufacturing and Service Strategy

MIS - 517: Manufacturing System Analysis

MIS - 518: Management of Technology

MIS - 519: Decision Support and Expert Systems

MIS - 520: Organizational Development and Change

MIS - 521: Advanced Database Management

MIS - 522: Applied Artificial Intelligence

MIS - 523: Seminar or Advanced MIS

MANAGEMENT INFORMATION SYSTEMS (MIS)

Course for the First Semester

MIS - 501: FUNDAMENTALS OF MANAGEMENT INFORMATION SYSTEMS

The main objectives of this course are to provide an understanding about the need for information support for decision makers at various management and decision levels. As the field of information system is interdisciplinary in nature, this course attempts to take a more generic approach and to provide a comprehensive conceptual foundation for the study of information systems. Topics include:

1. Organizational Foundation of Information Systems.
2. Psychology and behavioral Aspects of Information Systems.
3. Technical Foundations of Information Systems.
4. Building Information Systems.
5. Management and Organizational Support Systems
6. Managing Contemporary Information Systems.

Recommended Texts:

1. Laudon, K.C and Laudon, J.P., Management Systems. NY: Prentice - Hall.
2. Post, G.V. and Anderson, D.L., Management Information Systems. Boston: McGraw-Hill.
3. O'Brien, J, Management Information Systems. Boston: Irwin/Mcgraw-Hill.

MIS - 502: STRATEGIC MANAGEMENT

The nature of strategic management is changing in such a way that all managers, regales of organizational level or functional specialty, are becoming more involved in helping to formulate and implement strategies for the entire business. The focus of this course is to broaden student's understanding about the process of developing and implementing a strategy for achieving competitive advantages. Topics include:

1. Perspective on strategic management (content and process)
2. Strategic analysis (external and internal)
3. Strategy formulation at different levels (operations, business, corporate and international)
4. Strategy implementation (change, learning, context, system and action)

Recommended Texts:

1. Thomson, A. A. and Strickland, A.J., Strategic Management. Boston: McGraw-Hill.
2. Miller, A and Dess, G., Strategic Management. NY: McGraw-Hill.

MIS - 503: MANAGEMENT SCIENCE

The course is a survey of management science tools and techniques that have found application in the business area. Stress is placed upon the decision making process of the organizations. Special emphasis will be given on the use of computers in solving problems. Management Science software or specially designed Software for solving various decision problems will be used in this course. Solution techniques include:

1. Management Science : Characteristics and Process
2. Decision theory : Decision Tables and Decision Trees
3. Game Theory
4. Linear Programming : Theory and Application
5. Mathematical Programming
6. Dynamic Programming
7. Transportation
8. Network Models
9. Markov Analysis
10. Simulation Technique

Recommended Texts:

1. Turban and Meredith, Fundamentals of Management Science. Boston: Mcgraw-Hill
2. Anderson, D.R., Sweeney, D.J, and Williams, T. A, An Introduction to management Science. West Publishing Company.
3. Hesse, R., Management Spreadsheet Modeling and Analysis. Boston: Mcgraw-Hill.

MIS - 504: COMPUTER PROGRAMMING (VISUAL BASIC)

The objective of this course is to provide the students an understanding about a visual presentation of modern programming languages. It begins with the fundamental concept about visual programming and gradually moving toward complex features so that student can learn about realistic end-user applications when they will encounter in the real world. Topics include:

1. Program, business applications and visual basic
2. Visual basic projects: Project structure and VB as programming tools
3. Representing Data : Constant and variables
4. Performing calculations and manipulation data: expressions.
5. Specifying alternate courses of action: Selection statements.
6. Reducing program complexity: General sub procedures and programmer-defined functions
7. Repeating processing tasks : Loop structures
8. Assessing business data : processing database

9. Handling list of data : Arrays
10. Representing entities with data and behavior: Programmer-defined types and object classes.

Recommended Texts:

1. Burrows, W. and Langford, J., Programming Business Application with Microsoft Visual Basic 6.0 Boston: McGraw-Hill.

MIS - 505: SPREADSHEET ANALYSIS AND MODELING

The main objective of this course is to develop and apply software skills in the real business world. The skill of analysis of spreadsheet will help the students to develop appropriate model for organization. The software package Excel 2000 will be used for this purpose. Topics include:

1. Formatting text and numbers.
2. Templates
3. Working with multiple worksheets and files
4. Consolidating worksheets and exchanging data
5. Using workgroup functions
6. Auditing a worksheet
7. Using database
8. Filtering data
9. Advanced database features
10. Data maps
11. Importing and exporting data
12. Using macros
13. Web page authoring and publishing

Recommended Texts:

1. Todias, C., Excel2000: A Professional Approach Series Level 1: Expert, Glencoe/Mcgraw-Hill
2. O'Leary, T.J. and Linda, I.L., Microsoft Excel 2000 (Introductory edition). Boston : McGraw-Hill
3. Laudon, K. Microsoft Excel 2000 : Interactive Computing Series (Introductory edition). Boston: McGraw-Hill

Course For the Second

(Students are required to take any five courses out of the following, as determined by the Department)

MIS - 510: IMPLEMENTATION OF INFORMATION SYSTEMS

The main focus of this course is to broaden the understanding about the process of implementing an information system and also to examine the organizational implications of introducing new information systems. Topics include:

1. Meaning of information Systems
2. Concepts of implementation
3. Process of implementation.
4. Organizational issues in the process of implementation implication
5. Human recourse management and financial implications of introducing information systems.
6. Maintenance of information systems

Recommended Texts:

1. Pearce, J. and Robinson, R. Formulation, Implementations and control of competitive strategy. Boston: McGraw-Hill.
2. Lucas, H. C. The Analysis, Design, and Implementation of Information Systems. Boston: McGraw-Hill.

MIS - 511: COMPUTER BASED SIMULATION SYSTEM

Completion of lower-division mathematics requirements and a course in a scientific programming language such as FORTRAN, PL/1, or PASCAL. Discrete computer systems simulation using languages such as GPSS, GASP or SIMAN. Cases include queuing, Layout, Planning and evaluation, and financial modeling. Topics include:

1. Basic simulation Modeling
2. Modeling Complex System.
3. Simulation : Credible Simulation Models
4. Review of Basic Probability & Statistics
5. Building Valid Software
6. Selecting Input probability Distributions.
7. Random Number Generators
8. Generating Random Variants
9. Output Data Analysis for a Single System
10. Statistical Techniques for Comparing Alternative Systems.
11. Variance Reduction Technique
12. Experimental Design and Optimization
13. Simulation of Manufacturing Systems.

Recommended Texts:

1. Law, A. and Kelton, D.M., Simulation Modeling and Analysis. Boston: McGraw-Hill
2. Pegden, D, Sasoieski, R.P. and Shannon, R. E., Introduction to Simulation using SIMAN. Boston : McGraw-hill

MIS - 512: DATABASE MANAGEMENT (MS-ACCESS / FOX PRO)

Theoretical aspect and management application of databases, file organization and data models with special emphasis on database design (normalization) and structured query language - SQL (queries). Discussion covers storage devices, system design, queries, application and database administration, distribution and integration of data.

Recommended Texts:

1. Post. G., Database Management Systems. Boston: McGraw-hill
2. Ramakrishna, R. and Gehrke, J. Database Management Systems. Boston: McGraw-Hill.

MIS - 513: SYSTEMS ANALYSIS AND DESIGN

Business information system design and management with coverage of essential system analysis techniques. Theory and application of system design. Computer aided software engineering and fourth generation language tools used to develop and managing appropriate business information system for the organizations. Project management and system analysis, design and management issues.

Recommended Texts:

Yeates, D., Shields, M. and Helmy, D. Systems Analysis and Design. Delhi: MacMillan India Ltd.

1. Whitten, J. L. and Bentley, L., Systems analysis and Design Methods. Boston: McGraw - Hill.
2. Kendall, P.A. Introduction to Systems Analysis and Design. Boston: McGraw-Hill.

MIS - 514: INTERNET, WEB-PAGE DEVELOPMENT**(HTML AND JAVA) AND NETWORK ADMINISTRATION**

The main objective of this course is to provide the students and understanding and effective use of internet and world wide web design. The World Wide Web is going

to fundamentally change how we work and play. Begins with an introductory coverage of the Internet and how to use. Then completely covers various aspects of network administration. Topics include

1. HTML : An overview; 2. First Web Page; 3. Links with Hyper; 4. Listing of elements; 5. Formatting; 6. Inclusions: Image and Multimedia; 7. Tables :Data in Row and Column; 8. Styles: some have it and some don't; 9. Frames : Divide and Conquer; 10. Forms: Handling users input; 11. CGI: let machine do it for you; 12. Features to help the users; 13. JavaScript; Program for HTML; 14. Dynamic HTML, Charismatic pages; 15. Pragmatic Hypertext, 16. Network Administration.

Recommended Texts:

1. Gottleber, T.T. and Trainor., T., More Excelent. HTML with an introduction to JavaScript. Boston: McGraw-Hill
2. Smith, M., Java; An Object - Oriented Language. Boston : McGraw - Hill.

MIS - 515: ELECTRONIC COMMERCE

The field of Electronic Commerce has grown rapidly over the past few years. The focus of this course is on managerial approach which allows the students to fully understand and appreciate the strategic, tactical, and operational challenges faced when launching an e-commerce based business. Topics include:

1. An overview of electronic commerce; 2. The root of electric commerce; 3. Internet infrastructure; 4. The ISP business: Internet Service Provider; 5. Electronic commerce: service and products; 6. Internet payment mechanism; 7. Financial service and electronic commerce; 8. Electronic commerce marketing; 9. Business - to - Business electronic commerce and virtual organization; 10. Critical success factors for electronic commerce; 10. Critical success factors for electronic commerce; 11. Applicability of electronic commerce in the business sectors in Bangladesh.

Recommended Texts:

1. Huff, S. L. Schneberger, W. M. Newson, P. Parent, M., Case in Electronic Commerce, Boston: McGraw - Hill.
2. Greenstein, M. and Feinman, T., Electronic Commerce: Security Risk Management and Control. Boston: McGraw-Hill

MIS - 516: MANUFACTURING AND SERVICE STRATEGY

The main objectives of this course are to provide an insight and evaluate manufacturings and service's corporate contribution through strategic perspectives rather than just through operational performance. The intention is not only to

provide corporate level input from manufacturing and services but also to enable other functional managers to enhance the corporate debate. Topics include:

1. Meaning of manufacturing and service strategy
2. Stage of growth of manufacturing and service organization and the shift of competitive priorities
3. Manufacturing and service implications of corporate marketing decision.
4. Order winning and qualifiers
5. Choice of process
6. Focused manufacturing
7. Process positioning
8. Manufacturing infrastructure development
9. Accounting and financial perspectives of manufacturing and service strategy.

Recommended Texts:

1. Hill, T., Manufacturing Strategy : Text and Cases London: Macmillan Publishing
2. Fitzsimmons, J. A., Service Management : Operations, Strategy and Information Technology Boston : McGraw-Hill

MIS - 517: MANUFACTURING SYSTEM ANALYSIS

The objective of this course is to broaden students understanding about the theoretical and practical aspects of different types of production systems that are in operation in attention is given on the uses of computer in the manufacturing environment. Topics include:

Just-in-time (JIT); material Requirement Planning (MRP); Material Resource Planning; Flexible manufacturing System (FMS); Optimized Production technology (OPT); Lean Production System (LPS); Nagare Production System (NPS); Advanced Manufacturing Technology (AMT); Group Technology (GT); etc.

Recommended Texts:

1. Nicholas, J. M., Competitive - Manufacturing - Management. Boston: McGraw - Hill
2. Vollmann, T., Berry, W. L. and Whybark, D. C., Manufacturing Planning and Control Systems. Boston: McGraw - Hill.
3. Voss, C. A. (Ed)., Just-in-time Production System. London: IFS Publications.
4. Orlicky, J., Materials Requirements Planning. Boston: McGraw - Hill.

MIS - 518: MANAGEMENT OF TECHNOLOGY

Technology has played the dominant role in the productivity growth of most nations and has provided the competitive edge to firms that have adopted it early and implemented it successfully. The main objectives of this course is to provide an

understanding of how to manage the technology within the organization and how it helps to achieve competitive advantages.

1. Technology : Definition, Impacts of technological change, and philosophy
2. Science and technology, forms of technology
3. Key consideration of management of technology.
4. Management of Innovation - Types of innovation, innovation process, requirements for successful innovation, patent and innovation.
5. Understanding technological change - process of technological changes, change through substitution and diffusion, Factors affecting diffusion, S curve.
6. Management of technology transfer - process of technology transfer, role of MNCs in technology transfer.
7. Appropriate Technology (AT) - Concept of Appropriateness, myths and realities of AT, Determining AT.
8. Technology Infrastructure
9. Management of R&D institutes
10. Technological Forecasting (TF) - Role of TF in developing countries, general features of TF, techniques of TF, TF in practice, evaluation of TF, Mistakes in TF.
11. Technological planning models
12. Technological policies and practices in Bangladesh - challenges and opportunities
13. Generic competitive strategy

Recommended Texts:

1. Sushil K. Bhalla, Effective Management of Technology. Columbus : Battele Press.
2. Michael Porter, Competitive Advantages of a Nation. NY: The Free Press
3. Different issues of the Journal of Technological Forecasting and Social Change.

MIS - 519: DECISION SUPPORT AND EXPERT SYSTEMS

Technical and managerial issues involved in the evaluation acquisition and implementation of advances technologies, intelligence, executive information systems, neural networks and others. Topics include:

Introduction to Decision Support System; Human Decision Making Process; Systems Information Quality and Models; Types of Decision Support Systems; DSS Architecture; Hardware and Operating Platforms; Models in Decision Support System; Group Decision Support System; Mathematical Models and Optimization - Expert Systems.

Recommended Texts:

1. Mallach, E. G., Understanding Decision Support Systems and Expert Systems Boston: McGraw - Hill

2. Mallanch, E. G. Decision Support and Data Warehouse Systems. Boston: McGraw – Hill

MIS - 520: ORGANIZATIONAL DEVELOPMENT AND CHANGE

The objective of this course is to provide managers and students an integrated and comprehensive view of the field of organizational development. Topics include:

Basics of organizational Development; Organizational renewal and change; Development process; Intervention process; Power and politics in organizational development; Organizational Development: the Challenge and the future.

Recommended Texts:

1. French, W., Bell, C. H. and Zawacki, R. A. Organizational Development. Boston: McGraw-Hill
2. Quinn, J. B., Strategies for Change. Homewood, IL: Richard D. Irwin

MIS - 521: ADVANCED DATABASE MANAGEMENT

This course covers the following

Advanced theoretical and practical foundation. Brief overview of classical issues surrounding design, analysis, and implementation of database, both from a micro and mainframe perspective, Current and emerging issues in the database field. Analysis, design and implementation of distributed database, the object oriented data model paradigm, the use and management of automated design and support tools from a database perspective and data security.

Recommended Texts:

1. Smith, M. JAVA : An object-Oriented Language. New York: McGraw-Hill.

MIS - 522: APPLIED ARTIFICIAL INTELLIGENCE

This course aims at exploring the managerial application of artificial intelligence. Topics :

The survey of the major topics in artificial intelligence, such as neural network, natural language processing, robotics and vision; expert system concepts and strategies; evaluation tools and techniques; knowledge engineering methodology; building expert systems and project management for expert systems.

Recommended Texts:

1. Rich, E. and Knight, K., Artificial Intelligence. New York: McGraw-Hill
2. Schalkoff, R. Artificial Intelligence: An Engineering Approach. New York: McGraw-Hill.

MIS - 523: SEMINAR OR ADVANCED MIS

To be arranged and announced before the semester