

MASTER OF BUSINESS ADMINISTRATION (MBA)

COURSE DESCRIPTIONS

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BMS 839: APPLIED STATISTICS

Descriptive statistics. Probability distributions: discrete and continuous, Binomial, Hyper geometric, Poisson, Normal and Applications. Sampling theory. Statistical inference: Estimation theory; properties, points and interval estimates. Hypotheses testing: Z, t, F and chi-square tests. Regression and correlation analysis; prediction and tests of significance, Analysis of Variance. Experimental Design Theory and its Applications. Forecasting methods/techniques and application. Statistical analysis using appropriate statistical software.

BMS 840: QUANTITATIVE TECHNIQUES

Matrix Algebra: Overview and application. Linear programming models; Concept, modeling, Solution methods and application Project Planning and scheduling; Network Analysis approach. Inventory Management Models; Deterministic and Probabilistic. Materials Planning Requirement (MPR), pareto analysis, Just in Time (JIT). Game theory models. Calculus; variables and constants, functions, limits and continuity, derivatives, and integration. Statistical inference, practical significance, estimation, test of hypothesis, single mean and proportion, difference between means and proportion, curve fitting, independence.

BMS 841: MANAGEMENT INFORMATION SYSTEMS

Overview of computer hardware and systems software and computer applications software; Database management systems; databases approach Vs traditional approach, database creation, maintenance and organization. Organization and management structure; types, data and information flow and structure. Technical foundations of information systems. Systems approach; types of systems, and systems model. MIS and computer application, information systems analysis, design and implementation. Managing information resources.

BMS 842: PROJECT PLANNING AND ORGANIZATION

Meaning and Nature of project; characteristics of projects; project Parameters; classification of Project Types; evolution of project management; benefits of project management; project management environment. Project Planning Process: Importance of planning; project planning model; project Life-Cycle planning; project planning elements; project Partnering; work Integration; line-Staff Organization; pure Project Organization; matrix Organization; modification of Matrix Structures; mixed Organizational Systems; project-Functional Interface and Matrix Organization; organizational form selection criteria. Case Study illustration of project planning and organization.

BMS 843: PROJECT FINANCING AND RESOURCE SCHEDULING

Cost-Volume-Profit Analysis; full costing; budgeting; accounting for Control; capital Investment Decisions; types of project constraints; kinds of resource constraints; classification of a scheduling Problem; resource Allocation Methods; benefits of Scheduling Resources; assignment project work; multi-project Resources Schedules. Case Studies illustration.

BMS 844: PROJECT MONITORING & EVALUATION

Project Control: Purposes of control; types of Control Process; design of control systems; balance in a Control System. Project Auditing; purposes of Evaluation; project audit life cycle; construction and use of the audit report; essentials of an Audit/Evaluation; measurement. Project communication; establishing Progress Reporting System; change control; pre-requisite for effective control; establish a Baseline and formal control procedure; project quality plan; project termination type and processes

BMS 845: DATA BASE MANAGEMENT

Introduction to database processing. Detailed study of various tools needed for logical and physical design. Review of several commercially available database management systems. Database design methodologies. Database queries from client, administrative, and Web-based systems. Alternative data models and normalization of data. Implementation

BMS 846: DATA COMMUNICATIONS AND NETWORKING

Fundamentals of digital data communications and networking. Coding, signaling, and transmission of information. Hardware, software, standards, and protocol issues. Open-systems approaches to networking. TCP/IP, OSI, and the Internet

BMS 847: SYSTEM ANALYSIS AND DESIGN

Use management information systems techniques to solve managerial and organizational problems of limited complexity. Solving formal analytic problems and implementing solutions using MIS development techniques. Structured laboratory exercises. Project management and team development

BMS 848: OPERATIONS RESEARCH I

Nature and scope of operations research. Linear programming models; Concept, modeling, Solution methods and application. Advanced Linear Programming Models. Distribution Models; Transportation and Assignment Problems. Networks; PERT and CPM methods, Time - Cost-analysis, resource allocation techniques. Non-project oriented network techniques. Decision theory; decision problem and solution methods. Game theory models. Queuing models; operating characteristics and applications.

BMS 849: OPERATIONS MANAGEMENT

Nature and scope of operations management. Operations system and decision making. Models for operations management decisions, conventional models and quantitative models. Planning and design of the operations system. Functioning and control of the operations system; logistics systems, production/inventory control systems; output quality control systems; cost control systems.

BMS 850: E-COMMERCE SYSTEMS MANAGEMENT

Site management issues. Techniques necessary to implement a site for electronic commerce. High-security applications such as medical and personnel systems. Selection of appropriate architecture. Security and disaster recovery. Site maintenance. Interface with legacy systems

BMS 851: ADVANCED MANAGEMENT INFORMATION SYSTEMS

Use of modern information system technologies to support the decision-making activities of managers. Decision Support Systems. Group Support Systems. Executive Information Systems. Use of modern application development software to build a prototype MSS following appropriate design techniques. Use of artificial intelligence concepts in the development of systems for expert decision making, with application to business problems

BSU 805: RESEARCH METHODS

Research; definition and need. The research process. The research proposal. Literature review. Ethics in research. Research design strategies; Sampling design. Measurement. Data types, data collection tools and Techniques. Data Analysis methods: descriptive, inferential and relational statistics. Report writing techniques.