

MBA PROGRAMS

(Interamerican University of PR Metro Campus)

Specialization in Managerial Information Systems (M.B.A.)

Required Courses

BADM 5060 Management Information Systems
BADM 6030 Database Systems
BADM 6040 System Analysis and Design
BADM 6050 Internet: Superhighway of Information
BADM 6957 Integration Seminar in Information Systems

Prescribed Distributive Requirements for this Specialization - 3 credits

One course from the following:

BADM 6250 Telecommunications and Networks
BADM 6260 Advanced Programming
BADM 6270 Decision Support and Expert Systems
BADM 6280 Management of Information Technology

Managerial Information Systems Courses Description

BADM 5060 MANAGEMENT INFORMATION SYSTEMS

Management information systems and their impact on management problems as well as their effect on the organization. Development of analytical skills for selecting information systems based on electronic computers and their relationship to the managerial decision-making process.

3 credits

BADM 6030 DATABASE SYSTEMS

Fundamental concepts for the design and implementation of database systems from the perspective of different levels of abstraction and data models: conceptual, logical and physical. Algebraic and relational calculus operations, Structured Query language (SQL), Data Definition Language (DDL) and Data Manipulation Language (DML). Trends, technologies and most influential current models of databases, including object oriented, semantic and deductive models. Prerequisite: BADM 5060.

3 credits

BADM 6040 SYSTEM ANALYSIS AND DESIGN

Techniques and methodologies used to develop information systems in the organization, including steps and procedures to follow from the initiation of a new system until its implementation in the enterprise. Application of computerized tools that facilitate the analysis and design of an information system. Prerequisite: BADM 6030.

3 credits

BADM 6050 INTERNET: SUPERHIGHWAY FOR INFORMATION

World Wide Web (WWW) as the fundamental platform, its essential characteristics, tools and languages. Electronic business and recent developments in information services, including new work strategies, structural organizations and creative ways to reach customers. Challenges facing individuals, organizations and society due to the development of the superhighway for information. Prerequisite: BADM 5060.

3 credits

BADM 6957 INTEGRATION SEMINAR IN INFORMATION SYSTEMS

Research on topics related to the latest advances and developments in information systems, and on general information technology to integrate knowledge in this field and in related areas. Analysis of the impact of such advances in the management of information resources and the ethical implications within the organization. Prerequisite: Have completed all specialization courses. Grade P/NP.

3 credits

BADM 6250 TELECOMMUNICATIONS AND NETWORKS

Technologies, architectures, protocols and characteristics of network performance. Strategies, tools and techniques for planning, implementation, management, maintenance and security of networks. Recent developments and applications in the field of telecommunications and computerized networks. Prerequisite: BADM 5060.

3 credits

BADM 6260 ADVANCED PROGRAMMING

Advanced concepts in computer programming. Use, handling and practical application of a selected programming language and its impact within businesses and organizations. Prerequisites: BADM 5060, 6030, 6040.

3 credits

BADM 6270 DECISION SUPPORT AND EXPERT SYSTEMS

Techniques and modalities for the design and implementation of Decision Support Systems, Expert Systems, Group Support Systems, Executive Information Systems, Artificial Neural Networks and Diffuse Logic. Combination of these systems and their application in enterprises. Prerequisite: BADM 5060.

3 credits

BADM 6280 MANAGEMENT OF INFORMATION TECHNOLOGY

Information as a corporate resource. Relations between information, information technology, business strategies, and organizational design. Impact of the innovations in information technology and in organizations. Prerequisite: BADM 6040.

3 credits