Module Information

<table>
<thead>
<tr>
<th>Module Title</th>
<th>Management Information System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Code</td>
<td>EOM2504</td>
</tr>
</tbody>
</table>

1. MODULE SUMMARY

Aims and Summary

It is intended to prepare the students to analyse and design management information system in a business environment. Students will be taught information system and its role in a business organisation, its design, development and associated techniques & tools. Various types of information required for management decisions will be demonstrated to the students using suitable software.

Module Size and Credits

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Module size</td>
<td>Single</td>
</tr>
<tr>
<td>CATS points</td>
<td>10</td>
</tr>
<tr>
<td>ECTS credits</td>
<td>N/A</td>
</tr>
<tr>
<td>Open / restricted</td>
<td>Restricted</td>
</tr>
<tr>
<td>Availability on/off campus</td>
<td>On Campus/Off campus</td>
</tr>
<tr>
<td>Total student study hours</td>
<td>100</td>
</tr>
<tr>
<td>Number of weeks</td>
<td>5 weeks Full-time or 8 weeks Part-time.</td>
</tr>
<tr>
<td>Centre responsible</td>
<td>Department of Management Studies</td>
</tr>
<tr>
<td>Academic Year</td>
<td>2012</td>
</tr>
</tbody>
</table>

Entry Requirements (pre-requisites and co-requisites)

Any first degree will be qualified for entry to the MBA programme

Excluded Combinations

None

Composition of Module Mark (including weighing of components)

Full-time / Part-time : 50% Written Examination and 50% Assignment

Pass Requirements

A minimum of 40% marks in the written examination and a minimum of 40% marks in the assignment and overall 40% marks are required for a pass

Special Features

80% attendance in theory and 80% attendance in laboratory are required. Considerable time will be spent in School facilities outside of normal timetabled class time.

Courses for which this module is mandatory

MBA in Engineering Operations

Courses for which this module is a core option

None
2. TEACHING, LEARNING AND ASSESSMENT

Intended Module Learning Outcomes

After undergoing this module, students will be able to:
1. Explain and propose methods of data collection for managerial decision
2. Evaluate and select appropriate methodology for analysis and design of information processing systems
3. Analyse and design management information system in a given business environment
4. Proficiently use ERP as a part of Management Information System for decision making

Indicative Content

Class Room Lectures

1. Business Systems and the Information Systems Environment - Characteristics, The traditional structure of an organisation, Business systems, Contemporary approaches to information systems, Information architecture and information technology infrastructure, Essentials and types of business information systems
4. Object-Oriented Approach using UML Notation - Concepts and strengths of Object Orientation, Introduction to modeling and UML
5. Systems Development Life Cycles - Information systems development, Stages of the SDLC, Prototyping, Systems analysis and design, End user development, Implementation, Evaluating hardware, software, & services
6. Requirements Analysis – Tasks, Steps in system analysis and design, System analysis of the existing and new requirement, Design, Roles of people in software and role of Systems analysts and Business analysts
7. Data Collection Methods -Data for marketing decisions, Data Collecting methods, Additional data collection methods, Database, Database Lifecycle (DBLC) and Concept of Database management system
8. Information Search and Retrieval Skills - Database and information retrieval, Retrieval, Data warehouse, Data warehouse architecture, Data warehouse for decision support and OLAP
9. Use Case Diagrams - Use case and Role of use case diagrams in UML, Actors and cases, Interaction with external systems, Extends, Use cases and interaction diagrams, Class diagrams with objects and attributes, UML class diagrams
10. Associations, Multiplicities and Simple Inheritance -Relationships, Association, Aggregation, Composition, Multiplicity and Navigation, inheritance and Multiple inheritance
11. Purpose and Operation of a CASE tool - Rational Rose 98-A Case Tool

Laboratory Practice

1. Demonstration of types of information required for making management decisions using SAP ERP
2. Exercises on report generation by using MS Access
Teaching and Learning Methods

1. Theoretical Knowledge
   a. Face to face lectures  
   
2. Laboratory Practice (Skills)  
   
3. Application Orientation and Problem Solving
   a. Reading
   b. Research
   c. Written Examination
   d. Assignment Solving and Documentation
   
Part-A

Written Examination [50% Weightage]
At the end of the module, normally on the last day of the last week of the module, written examination is conducted to test students’ understanding of taught theoretical concepts. The question paper will comprise either or a combination of the following:
- 6 questions, out of which 5 questions need to be answered
- Practical laboratory work
- Presentations
The marks scored by the student will be scale down to 50% weight.

Part –B

Assignment [50% Weightage]
Students are required to submit a word processed assignment report.

Method of Assessment

<table>
<thead>
<tr>
<th>Learning Outcomes</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Part B</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Both written examination scripts and assignment reports will be double marked.

Re-assessment
A minimum of 40% marks in the written examination and a minimum of 40% marks in the assignment are required for a pass in the module. A student failing in any one of the components or both is considered as FAIL in the module. A failed student is required to retake the module at the next opportunity. A maximum of 3 attempts including the original are allowed.

**Date of Last Amendment**

November-2011

3. **MODULE RESOURCES**

**Essential Reading**

1. Module Notes provided by MSRSAS

**Recommended Reading**

**Books**


**Journals**

1. Information Technology Management, Maximilian Press
2. International Journal of Information and Management Sciences, Tamkang University
3. Information System Management, Taylor and Francis, Ltd.
4. Information Systems Journal, Blackwell publishing Limited

**Magazine**

1. Silicon Times
2. Silicon India
3. Data Quest
4. PC Quest

**Internet Sites**


**Laboratory**

**Hardware:** PCs

**Software:** Nil
4. MODULE ORGANISATION

Module Leader

<table>
<thead>
<tr>
<th>Name</th>
<th>Ms. Suman Yadav</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room</td>
<td>B503</td>
</tr>
<tr>
<td>Telephone number</td>
<td>080-4905 5555 (Ext.2335)</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:suman@msrsas.org">suman@msrsas.org</a></td>
</tr>
</tbody>
</table>

Date and Time of Examination

As per time table

Subject Quality and Approval Information

<table>
<thead>
<tr>
<th>Subject Quality Group / Subject Board</th>
<th>Department of Management Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Assessment Board</td>
<td>Postgraduate Engineering and Management Programme</td>
</tr>
<tr>
<td>Shortened title</td>
<td>MIS</td>
</tr>
<tr>
<td>Date of approval by MARP</td>
<td>November 2011</td>
</tr>
</tbody>
</table>