

**JAIPURIA INSTITUTE OF MANAGEMENT**

**PGDM; TRIMESTER III; ACADEMIC YEAR 2019-20**

**Course Overview:**

Course Code and title	Management Information Systems
Credits	1.5
Term and Year	Third Trimester; 2019-20
Course Pre-requisite(s)	Basic IT skills
Course Requirement(s)	Understanding of basic IT terminologies
Course Schedule (day and time of class)	As per time table released by PMC
Classroom # (Location)	As per allotted by PMC
Course Instructor	Prof. S Ramaswamy
Course Instructor Email	ramasamy123@gmail.com
Course Instructor Phone (Office)	9811590265
Student Consultation Hours	
Office location	

**Course Overview:**

Management Information Systems (MIS) is the management of information and information systems of an organization for better decision making. MIS blends principles, theories, and practices of Management, Reporting and Systems to help create an effective decision-making process. The course provides a brief at usage of information systems for managers in business organizations. This course also provides a brief detail about the disruptive technologies, which are changing the face of new age business.

**Course Learning Outcomes (CLOs):**

CLO 1: Describe the concept of information and information systems in the different processes of business. **(K)**

CLO 2: Discuss the role of information systems hierarchy (TPS, MIS DSS) and it's enablers in operations of a business. **(K)**

**Mapping of CLO with PLO**

CLOs/ PLOs	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8
	Communicate effectively and display interpersonal skills	Demonstrate leadership and teamwork towards achievement of organizational goals	Apply relevant conceptual frameworks for effective decision making	Develop an entrepreneurial mindset for optimal business solutions	Evaluate the relationship between business environment and organizations	Appreciate sustainable and ethical business practices	Leverage technology for business decisions	Demonstrate capability as an independent learner
<b>CLO1</b>			X					
<b>CLO2</b>			X					

**Mapping of CLOs with GAs**

CLOs/PLOs	GA1	GA2	GA3	GA4	GA5	GA6	GA7	GA8
	Self-initiative	Deep discipline knowledge	Critical thinking & Problem solving	Humility, Team-Building and Leadership Skills	Open and Clear Communication	Global outlook	Ethical competency & sustainable mindset	Entrepreneurial and innovative
<b>CLO1</b>		X						
<b>CLO2</b>		X						X

**Prescribed Text Book**

1. Readings/ Reference Material –To be provided by faculty
2. Laudon and Laudon , Management Information System, Pearson, 11<sup>th</sup> Edition

**Reference Books**

1. Introductory Relational Database Design for Business, with Microsoft Access 1st Edition, by Jonathan Eckstein (Author), Bonnie R. Schultz (Author)

S. No.	Topic / Sub topic	Text book / Readings	Pedagogy	SLO	CLO
1.	<b>Module I: Managing Information for Business Initiatives</b> Course overview and ice breaking session, Data/information hierarchy and its influence in building levels of information systems	Introductory talk / Text Book 1	Discussion	Students would be sensitized to information systems and technologies used in enhancing business processes. Also learn and differentiate data from information, knowledge and wisdom.	CLO 1
2.	Type of information systems – TPS, MIS DSS and ESS	Text Book Chapter 6	Class discussion Case Study	Students get to learn levels of information systems (TPS, MIS ...).	CLO 1
3.	Types of reports and its role in decision making	Reference Material/Text Book	Class discussion	Students learn the role played by decision making at different levels of management in supporting business activities.	CLO 1
4.	<b>Module II: TPS as a business enabler</b> Cloud Computing: Types of cloud, service models, Implication in Business	Reference Material/Text Book	Class discussion Case Study	At the end of this session, the student will be able to describe cloud and the scope of each of its core components	CLO 2
5.	Big Data: Features of big data and its usage	Reference Material	Class discussion	Students will get sensitized to the concept of Big Data	CLO 2
6.	Introduction to SMAC	Reference Material: <a href="https://www.cognizant.com/worldwide_olt/dont-get-smacked.pdf">https://www.cognizant.com/worldwide_olt/dont-get-smacked.pdf</a>	Class discussion Case Study	At the end of this session, the student will be able to describe SMAC and the scope of each of its core components	CLO 2
7.	Concepts of sensors and Internet of Things	Reference Material	Class discussion	At the end of this session, the student will be able to understand the basic concepts of IoT and its use in different industries	CLO 2

8.	<b>Module III: MIS &amp; DSS as enablers for decision making:</b> MIS & DSS: Business Intelligence	Reference Material	Class discussion,	At the end of this session, the student will be able to understand the details of BI	CLO 2
9.	Applications of BA in different Industry Verticals	Reference Material	Class discussion, case study	At the end of this session, the student will be able to understand application of BA	CLO 2
10.	Introduction to Artificial Intelligence and Machine Learning	Reference Material	Class discussion	At the end of this session, the student will be able to understand the basic concepts of AI and ML and how it is transforming the industry.	CLO 2
11.	iSMAC	Reference Material: <a href="https://www.cognizant.com/worldwide_olt/dont-get-smacked.pdf">https://www.cognizant.com/worldwide_olt/dont-get-smacked.pdf</a>	Class discussion	At the end of this session, the student will be integrate various disruptive technologies and they are transforming/disrupting business	CLO 2
12.	Review and Assessment-II (Module-I and Module-II)	Reference Material/Text Book	Class discussion		CLO 2

#### Assessment Components

S. No.	Assessment Task	Assessment Description	Weightage	CLO Measured
1.	Quiz	There will be two announced quizzes. Both quizzes would be considered for assessment. The quizzes would consist of multiple choice questions and/or fill in the blanks. The quizzes will be based on application of class learning through phrases / caselets / excerpts.	20%	Q1: CLO 1 Q2: CLO 2
2.	Assignment	There will be one announced assignment. Students will be evaluated individually and/or in groups. Assessment will be based on how well students participate individually/in groups in the datasets/caselets/lab analysis activities or questions put up in the class/forum.	20%	A1: CLO 1
3.	Case Analysis	There will be one case analysis. Students will be evaluated individually and/or in groups. Assessment will be based on how well students participate individually/in groups in the datasets/caselets/lab analysis activities or questions put up in the class/forum.	20%	C1: CLO2
4.	End term examination	This will be a hall examination consisting of case study and application based situational questions wherein students will reflect and correlate their learning.	40%	CLO 1 & 2

**Instructions:**

Students will be expected to maintain a daily log of their learning and make an action plan. The continuous evaluation tools would be implemented as per schedule and collected for evaluation.

Students are encouraged to visit videos available on Internet – YouTube, TED talks, and readings available at websites like course era, etc.

**Institute's Policy Statements**

It is the responsibility of every student to be aware of the requirements for this course, and understand the specific details included in this document. It is emphasized that this course requires a significant commitment outside of formal class contact. The learning tasks in this course include classes, required reading and practices, the preparation of answers to set questions, exercises and problems, and self-study. In addition, students may be required to complete an assignment, test or examination.

**Late Submission**

Not applicable as student would have to complete and submit assignment in the class.

**Plagiarism:**

Plagiarism is looked at as the presentation of the expressed thought or work of another person as though it is one's own without properly acknowledging that person.

Cases of plagiarism will be dealt with according to Plagiarism Policy of the institute. It is advisable that students should read applicable section of Student Handbook for detailed guidelines. It is also advisable that students must not allow other students to copy their work and must take care to safeguard against this happening. In cases of copying, normally all students involved will be penalized equally; an exception will be if the student can demonstrate the work is their own and they took reasonable care to safeguard against copying.

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**Time budgeting in course planning:**

Activity	Description	Time Budgeted
Classes	2-3 hours per week for 6 weeks	15 hours
Reading	Prescribed readings and making notes	15 hours
Preparation of set questions, exercises and problems	Including shared and group exercises	15 hours
Preparation of assignment	Reading and writing	15 hours
Study and revision for test and end of Trimester examination	Self-preparations	15 hours
<b>TOTAL</b>		75 hours

**RUBRICS FOR QUIZ**

CLO 1: Describe the concept of information and information systems in the different processes of business. (K)

CLO 2: Discuss the role of information systems hierarchy (TPS, MIS DSS) and it's enablers in operations of a business. (K)

Criteria	Below Expectations <35%	Meets Expectations 35% - 70%	Exceeds Expectations >70%
Conceptual Understanding of information and information systems and their usage	Little or no conceptual understanding of concepts of information and its application	Many of concepts of information hierarchy are clear and understood well with its application	Most of concepts are clear, remembered, understood and answered well by the student.
Conceptual Understanding of information systems enablers for business output	Little or no conceptual understanding of enabling technologies	Is somewhat able to understand concepts of technology enablers and its application	Most of the concepts of technology enablers are clear, remembered, understood and answered well by the student.

**RUBRICS FOR ASSIGNMENT**

CLO 1: Describe the concept of information and information systems in the different processes of business. (K)

Criteria	Below Expectations <35%	Meets Expectations 35% - 70%	Exceeds Expectations >70%
Conceptual Understanding	Little or no conceptual understanding of concepts	Many of concepts are clear and understood well	Most of concepts are clear, remembered, understood and answered well by the student.

**RUBRICS FOR CASE ANALYSIS**

CLO 2: Discuss the role of information systems hierarchy (TPS, MIS DSS) and it's enablers in operations of a business. (K)

Criteria	Below Expectations <35%	Meets Expectations 35% - 70%	Exceeds Expectations >70%
Conceptual Understanding	Little or no conceptual understanding of concepts	Many of concepts are clear and understood well	Most of concepts are clear, remembered, understood and answered well by the student.

**RUBRICS FOR END TERM**

CLO 1: Describe the concept of information and information systems in the different processes of business. (K)

CLO 2: Discuss the role of information systems hierarchy (TPS, MIS DSS) and it's enablers in operations of a business. (K)

<b>Criteria</b>	<b>Below Expectations &lt;35%</b>	<b>Meets Expectations 35% - 70%</b>	<b>Exceeds Expectations &gt;70%</b>
Conceptual Understanding and Application	Little or no conceptual understanding of concepts	Many of concepts are clear and understood well and applied	Most of concepts are clear, remembered, understood and applied well by the student.

## Action Verbs : Guidelines for designing question paper

### CLO 1:

<b>Comprehension</b>	
<b>Useful Verbs</b>	<b>Sample Question Stems</b>
explain interpret outline discuss distinguish predict restate translate compare describe	Can you write in your own words...? Can you write a brief outline...? What do you think could of happened next...? What do you think...? Can you distinguish between...? What differences exist between...? Can you provide an example of what you mean...? Can you provide a definition for...?

### CLO 2:

<b>Application</b>	
<b>Useful Verbs</b>	<b>Sample Question Stems</b>
Solve Show Use Illustrate Construct Complete Examine Classify	Do you know another instance where...? Could this have happened in...? Can you group by characteristics such as...? What factors would you change if...? Can you apply the method used to some experience of your own...? What questions would you ask of...? From the information given, can you develop a set of instructions about...? Would this information be useful if you had a ...?