Lingaya's Vidyapeeth

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COURSE PLAN & COURSE DATA SHEET

PROGRAM: B.Sc	DEGREE: B.Sc
COURSE: MANAGEMENT INFORMATION SYSTEM	SEMESTER: 4. CREDITS: 4
COURSE CODE: BCS-210 REGULATION: REGULAR	COURSE TYPE: CORE /ELECTIVE / BREADTH/ S&H
COURSE AREA/DOMAIN: MANAGEMENT	CONTACT HOURS: 3hours/Week.
CORRESPONDING LAB COURSE CODE (IF ANY): NA	LAB COURSE NAME (IF ANY): NA

PROGRAM EDUCATIONAL OBJECTIVES:

The objective of the course is to acquaint the students about the concept of information system in business organizations, and also the management control systems.

SYLLABUS:

UNIT	DETAILS	HOURS
I	Introduction – History and Evolution: Effective and Timely decisions, Data Information and Knowledge, Architectural Representation, Role of mathematical Models, Real Time Business Intelligent System.	10 Hours
II	Data Mining - Introduction to Data Mining, Architecture of Data Mining and How Data mining works(Process) , Functionalities & Classifications of Data Mining, Representation of Input Data, Analysis Methodologies. Data Warehousing - Introduction to Data Warehousing, Data Mart, Online Analytical Processing (OLAP) – Tools, Data Modelling, Difference between OLAP and OLTP, Schema – Star and Snowflake Schemas, ETL Process – Role of ETL	8 Hours
III	Data Validation - Introduction to Data Validation, Data Transformation – Standardization and Feature Extraction, Data Reduction – Sampling, Selection, PCA, Data Discretization	10 Hours
IV	Introduction to analytics process, Types of Analytical Techniques in BI – Descriptive, Predictive, Perspective, Social Media Analytics, Behavioral, Iris Datasets	08 Hours
V	Business Activity Monitoring, Complex Event Processing, Business Process Management, Metadata, Root Cause Analysis.	06 Hours
	TOTAL HOURS	44 Hours

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Teacher Centric Approach			
TC1: Chalk and Talk, Blended learning	**TC2: PPT,**	**TC3: Video Lectures**	**TC4:**
Learner Centric Approach:			
LC1: Assignment. **LC2: Mini project.** **LC3: Quiz/Class test.** **LC 4: Seminar on recent trends.**			
LC5: Group Task. **LC6: Others**			

DETAILED SESSION PLAN

Lecture session/ Number	Topics to be covered	CO addressed	Teacher Centric Approach	Learner Centric Approach	References	Relevance with POs and PSOs
1.	**UNIT- I**					
2.	Introduction History and Evolution	TC1				
3.	Effective and Timely decisions,	TC2				
4.	Data Information and Knowledge,	TC1				
5.	Architectural Representation,	TC2				
6.	Role of mathematical Models,	TC3				
7.	Real Time Business Intelligent System.	TC3				
8.	Introduction - History and Evolution	TC1				
9.	Class test			LC3		
10.	**UNIT- II**					

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	Data Mining - Introduction to Data Mining,	TC1				
11.	Architecture of Data Mining and How Data mining works(Process) ,					
12.	Functionalities & Classifications of Data Mining,	TC2				
13.	Representation of Input Data,	TC3				
14.	Analysis Methodologies.	TC1				
15.	Data Warehousing - Introduction to Data Warehousing,	TC1 TC2				
16.	Data Mart, Online Analytical Processing (OLAP) – Tools Data Modelling, Difference between OLAP and OLTP,	TC3				
17.	Schema – Star and Snowflake Schemas,					
18.	ETL Process – Role of ETL					
19.	Doubts/ Discussion	TC1 TC2 TC3				
20.	**Class test**		LC3			
21.	**UNIT- III** Introduction to analytics process,	TC1				
22.	Types of Analytical Techniques in BI –	TC2				
23.	Descriptive, Predictive,	TC3				

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24.	Perspective,	TC1				
25.	Doubts/ Discussion	TC1 TC2 TC3				
26.	Revision/ Presentations	TC1 TC2				
27.	**Class test**		LC3			
28.	**UNIT IV** Introduction to analytics process,	TC1				
29.	Types of Analytical Techniques in BI – Descriptive, Predictive, Perspective, Social Media Analytics, Behavioral,	TC2				
30.	Iris Datasets	TC3				
31.	Doubts/ Discussion	TC1 TC2 TC3				
32.	Revision/ Presentations	TC1 TC3				
33.	**Class test**		LC3			
34.	UNIT- V Business Activity Monitoring,	TC1				
35.	Complex Event Processing,	TC2				
36.	Business Process Management,	TC3				
37.	Metadata,	TC1				
38.	Root Cause Analysis.	TC2				
39.	Doubts/ Discussion	TC1 TC2 TC3				
40.	Revision/ Presentations	TC1 TC2				

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41.	Class test	LC3

TEXT/REFERENCE BOOKS:

T/R	BOOK TITLE/AUTHORS/PUBLICATION
1	Laudon and Laudon, Management Information Systems, Pearson Education, 2014.
2	Javadekar, W.S., "Management Information Systems", Tata McGraw Hill Publication, 2014.

WEB SOURCE REFERENCES (W):

1	O'Brien, James A., "Management Information System", Tata McGraw Hill, 2014.
2	Davis,B.Gordon, "Management Information System", Tata McGraw Hill Publication, 2012
3	Goyal D.P., "Management Information Systems", Macmillan Publication, 2014.
4	M Azam, "Management Information System", Tata McGraw Hill, 2012.

COURSE PRE-REQUISITES:

C.CODE	COURSE NAME	DESCRIPTION	SEM
BCS-404	**MANAGEMENT INFORMATION SYSTEM**	**Qualified systems and management staff. Control and maintenance of MIS. Common data base**	

COURSE OBJECTIVES:

1	The objective of the course is to acquaint the students about the concept of information system in business organizations the management control systems.

COURSE OUTCOMES:

S.NO	DESCRIPTION	PO(1..12) MAPPING	PSO(1..3) MAPPING

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CO1	Relate the basic concepts and technologies used in the field of management information systems;		
CO2	Compare the processes of developing and implementing information systems.		
CO3	Outline the role of the ethical, social, and security issues of information systems. .		
CO4	Translate the role of information systems in organizations, the strategic management processes, with the implications for the management. .		
COURSE OVERALL PO/PSO MAPPING:			

COURSE OUTCOMES VS POs MAPPING

DETAILED; HIGH:3; MEDIUM:2; LOW:1;

SNo.	PEO1	PEO2	PEO3	PEO4
PO1	1	3	2	3
PO2	1	3	2	2
PO3	1	2	3	2
PO4	3	1	2	1
PO5	1	1	2	2
PO6	1	2	3	2
PSO 1	1	3	2	2
PSO 2	1	2	1	2

* For Entire Course, PO & PSO Mapping

POs & PSO REFERENCE:

PO1	Engineering Knowledge	PO7	Environment & Sustainability	PSO1	…………………………
PO2	Problem Analysis	PO8	Ethics	PSO2	………………………… ….
PO3	Design & Development	PO9	Individual & Team Work	PSO3	………………………… …..
PO4	Investigations	PO10	Communication Skills		

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PO5	Modern Tools	PO11	Project Mgt. & Finance		
PO6	Engineer & Society	PO12	Life Long Learning		

COs VS POs MAPPING JUSTIFICATION:

S.NO	PO/PSO MAPPED	LEVEL OF MAPPING	JUSTIFICATION
Cxxx.1			
Cxxx.2			
Cxxx.3			
Cxxx.4			
Cxxx.5			
Cxxx*			

GAPS IN THE SYLLABUS - TO MEET INDUSTRY/PROFESSION REQUIREMENTS, POs & PSOs:

SNO	DESCRIPTION	PROPOSED ACTIONS
1	NA	

PROPOSED ACTIONS: TOPICS BEYOND SYLLABUS/ASSIGNMENT/INDUSTRY VISIT/GUEST LECTURER/NPTEL ETC

 # TOPICS BEYOND SYLLABUS/ADVANCED TOPICS/DESIGN:

1	NA

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DELIVERY/INSTRUCTIONAL METHODOLOGIES:

☐ CHALK & TALK	☐ STUD. ASSIGNMENT	☐ WEB RESOURCES	☐ NPTEL/OTHERS
☐ LCD/SMART BOARDS	☐ STUD. SEMINARS	☐ ADD-ON COURSES	☐ WEBNIARS

ASSESSMENT METHODOLOGIES-DIRECT

☐ ASSIGNMENTS	☐ STUD. SEMINARS	☐ TESTS/MODEL EXAMS	☐ UNIV. EXAMINATION
☐ STUD. LAB PRACTICES	☐ STUD. VIVA	☐ MINI/MAJOR PROJECTS	☐ CERTIFICATIONS
☐ ADD-ON COURSES	☐ OTHERS		

ASSESSMENT METHODOLOGIES-INDIRECT

☐ ASSESSMENT OF COURSE OUTCOMES (BY FEEDBACK, ONCE)	☐ STUDENT FEEDBACK ON FACULTY (TWICE)
☐ ASSESSMENT OF MINI/MAJOR PROJECTS BY EXT. EXPERTS	☐ OTHERS

 # INNOVATIONS IN TEACHING/LEARNING/EVALUATION PROCESSES:

1. Blended mode teaching

2. Field visits

3. Simulation study

Prepared by: Ms. Akshita   **Approved by: Dr. Samriti Mahajan**

(Faculty)   **(HOD)**

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 # Additionally, the details to be compiled separately by the Departmental Coordinator for the entire Department.