GOVERNMENT POLYTECHNIC, NAGPUR.
(An Autonomous Institute of Govt. of Maharashtra)

COURSE CURRICULUM

PROGRAMME	:	DIPLOMA IN CM/IT
LEVEL NAME	:	PROFESSIONAL COURSES
COURSE CODE	:	IT404E
COURSE TITLE	:	MANAGEMENT INFORMATION SYSTEM
PREREQUISITE	:	NIL
TEACHING SCHEME	:	TH: 03; TU: 00; PR: 00 (CLOCK HRs.)
TOTAL CREDITS	:	03 (1 TH/TU CREDIT = 1 CLOCK HR., 1 PR CREDIT = 2 CLOCK HR.)
TH. TEE	:	03 HRs
PR. TEE	:	NIL
PT.	:	01 HR

❖ **RATIONALE:**

MIS is a concept continuous to evolve; emerging trend consistent with the evolution of the MIS concept endures computing. It is the power of computers which makes MIS feasible. From this point of view, the course is introduced.

❖ **COURSE OUTCOMES:**
After completing this course students will be able to–

1. Identify the role of MIS in various functional areas of management.
2. Illustrate the supporting role of MIS in decision making.
3. Design information system necessary.
4. Analyse the determination of requirement.
5. Analyse software process.
6. Design software and gains knowledge on effective applications of information systems in   business.

❖ COURSE DETAILS:

A. THEORY :

Units	Specific Learning Outcomes (Cognitive Domain)	Topics and subtopics	Hrs.
1.Management Information System: A Framework	1. Define MIS. 2. List the applications of MIS. 3. Describe Information System of MIS. 4. Describe Information Technology and Disnature and scope of MIS 5. List MIS characteristics.	1.1 Importance of MIS, Management Information System :A concept 1.2 Management, Information System MIS: A Definition 1.3 Information Technology and Disnature and scope of MIS 1.4 MIS characteristics, IS Functions.	6
2.Structure And Classification Of MIS	1. Design the structure of MIS based on Physical Components. 2. Describe levels of management activities. 3. Describe Organizational Function of MIS. 4. List classification of IS. 5. Describe transaction processing System. 6. Define the term: MIS, DSS, ESS,OASs . 7. Differentiate between Financial Information System, Marketing Information System and Production/Manufacturing.	2.1 Structure of MIS,MIS structure based on Physical Components 2.2 Information System processing Functions, Decision Support, Levels of Management Activities 2.3 Organizational Function, IS Classification, transaction processing System 2.4 Management Information System(MIS),Decision Support System(DSS) 2.5 Executive Support System, Office Automation system(OASs) 2.6 Business Expert System(BESs),Functional Information, System 2.7 Financial Information System, Marketing Information System, 2.8 Production/Manufacturing Information System	10
3.Decision –Making And MIS	1. Describe Simon's Model Of Decision –Making. 2. List Components of DSS. 3. Describe Phases of decisions making process and types of DSS. 4. Differentiate between Decision Theory And Decision Analysis 5. Analyse Level Of Programmability and	3.1 Decision –Making Simon's Model Of Decision –Making 3.2 Components of DSS , Phases of decisions making process, Types Of DSS 3.3 Purpose of Decision Making,Level Of Programmability 3.4 Knowledge Of Outcomes, methods for Choosing Amongalternatives, 3.5 Decision Theory And Decision	8

	Purpose of Decision Making. 6. Describe Tree, Optimization Techniques	Analysis,Utility 3.6 Decision Tree,Optimization Techniques	
4.Information And System Concepts	1. Define Information. 2. List types of information 3. Describe the characteristics of each Dimension. 4. Describe Kinds Of Definition 5. Analyse the different types of information	4.1 Information :A Definition, Types Of Information, strategic Information 4.2 Tactical Information, Operational Information, information Quality 4.3 Dimensions of Information Economic Dimensions, Business Dimensions 4.4 Technical Dimensions, 4.5 System :A Definition , Kinds Of Definition	6
5.Database Management Systems (DBMS)	1. Define Database Hierarchy. 2. Describe Data Duplication, Data Inconsistency, Lack Of Data Integration, Data Dependence 3. Differentiate Types Of Database Structure 4. State the Advantage Of database System 5. State the Disadvantage Of database System 6. Illustrate Objective Of Database 7. Design the software for Database	5.1 Introduction, Database Hierarchy, files-the Traditional approach 5.2 Data Duplication, Data Inconsistency, Lack Of Data Integration, Data Dependence 5.3 Program Dependence, Objective Of Database, Advantage Of database System 5.4 Disadvantage Of a Database, Database Structure ,Database Management System 5.5 Types Of Database Structure	8
6.Implementation And Evalution Of MIS	1. Illustrate Implementation Process and also Describe planning for Implementation 2. Write step for Creation of forms And Database. 3. Select appropriate Hardware and Software for implementation. 4. Describe IS organization And Procedure Development. 5. Implement requirement analysis of MIS 6. Analyse software process.	7.1 Implementation Process, Planning the Implementation 7.2 Acquisition Of facilities And Space Planning 7.3 IS organization And Procedure Development 7.4 User Training, Acquisition Of Hardware And Software 7.5 Creation Of Forms And Database, Testing 7.6 changeover, Hardware and Software Selection 7.7 Requirement Analysis	10
		Total Hrs.	48

Unit No.	Units	Levels from Cognition Process Dimension			Total Marks	
Practi cals	Specific Learning Outcomes (Psychomotor Domain)	R	U	A	Units	Hrs.
	Management	NIL				
01	Information System: A Framework	04(04)	04(04)	06(00)	**14(08)**	
02	Structure And Classification Of MIS	04(00)	04(08)	06(00)	**14(08)**	
03	Decision –Making And MIS	00(02)	04(04)	06(00)	**10(06)**	
04	Information And System Concepts	00(02)	06(04)	06(00)	**12(06)**	
05	Database Management Systems (DBMS)	04(00)	04(00)	00(06)	**08(06)**	
06	Implementation And Evaluation Of MIS	02(00)	10(00)	00(06)	**12(06)**	
	Total	**14(08)**	**32(20)**	**24 (12)**	**70 (40)**	

B.   LIST OF PRACTICALS/LABORATORY EXPERIENCES/ASSIGNMENTS:

❖   SPECIFICATION TABLE FOR THEORY PAPER:

R – Remember   U – Understand   A – Analyze / Apply

Q. No	Bit 1			Bit 2			Bit 3			Bit 4			Bit 5			Bit 6			option
	T	L	M	T	L	M	T	L	M	T	L	M	T	L	M	T	L	M	
01	1	R	2	1	R	2	4	U	2	6	U	2	6	R	2	3	R	2	5/7
	4	R	2																
02	2	R	4	1	U	4	2	U	4	2	U	4	2	U	4				3/5
03	3	U	4	4	U	4	5	R	4	1	R	4	1	U	4				3/5
04	5	U	4	6	U	4	6	U	4	3	U	4	4	R	4				3/5

05	1	A	6	2	A	6	5	A	6							2/3
06	3	A	6	4	A	6	6	A	6							2/3

❖ QUESTION PAPER PROFILE FOR THEORY PAPER

T= Unit/Topic Number   L= Level of Question   M= Marks

R-Remember   U-Understand   A-Analyze/ Apply

❖ ASSESSMENT AND EVALUATION SCHEME:

		What	To Whom	Frequency	Max Marks	Min Marks	Evidence Collected	Course Outcomes
Direct Assessment Theory	CA (Continuous Assessment)	PT	Students	Two PT (average of two tests will be computed)	20	--	Test Answer Sheets	1, 2, 3, 4, 5, 6
		Class Room Assignments		Assignments	10	--	Assignment Book	1, 2, 3, 4, 5, 6
	TEE (Term End Examination)	End Exam	Students	End Of the Course	70	28	Theory Answer Sheets	1, 2, 3, 4, 5, 6
				Total	100	40		
Direct Assessment Practical	CA (Continuous Assessment)	ST	Students	One skill test at end of term	--	--	--	--
		Journal Writing		Assignments	--	--	--	--

				TOTAL	--	--	--	--
	TEE (Term End Examination)	End Exam	Students	End Of the Course	--	--	--	--
Indirect Assessment	Student Feedback on course		Students	After First PT	Student Feedback Form			1, 2, 3, 4,5,6
	End Of Course			End Of The Course	Questionnaires			

❖ **SCHEME OF PRACTICAL EVALUATION:**

S.N.	Description	Max. Marks
NIL		

❖ **MAPPING COURSE OUTCOMES WITH PROGRAM OUTCOMES:**

Course Outcomes (COs)	Program Outcomes (POs)										Program Specific Outcomes(PSOs)	
	1	2	3	4	5	6	7	8	9	10	1	2
1	-	3	-	-	-	-	-	-	-	3	-	3
2	-	3	-	-	-	-	-	-	-	3	-	3
3	-	3	-	-	-	-	-	3	3	3	-	3
4	-	3	-	-	-	-	-	3	3	3	-	3
5	-	3	-	-	-	-	-	-	-	3	-	3
6	-	3	-	-	-	-	-	3	3	3	-	3

1: Slight (Low)   2: Moderate (Medium)   3: Substantial (High)

❖ **REFERENCE & TEXT BOOKS:**

S.N.	Title	Author, Publisher, Edition and Year Of publication	ISBN Number
1.	Management information System	Gordon B. Davis and Margeth, First Edition ,1976	13:9780070158283
2.	Management information System	Jawadekar W.S. , Tata McGraw-Hill Publishing Company Limited, 2nd Edition, 2002	13:9780070445758
3	Management Information System	Robert Schultheis, Mary Summer, Management Information Systems –The ManagersView, Tata McGraw Hill,4th Edition 2008.	13:97801323476173

❖ **E-REFERENCES:**
- https://www.sapnaonline.com/.../management-information-systems-text-cases-331651 ,accessed on 05 April 2016
- https://www.youtube.com/watch?v=ht8I-CL12j4,accessed on 01 April 2016

❖ **LIST OF MAJOR EQUIPMENTS/INSTRUMENTS WITH SPECIFICATION**

NIL

❖ **LIST OF EXPERTS & TEACHERS WHO CONTRIBUTED FOR THIS CURRICULUM:**

S.N.	Name	Designation	Institute / Industry
1.	Dr.A.R.Mahajan	Head of Information Technology	Government Polytechnic, Nagpur.
2.	Mr. S.P.Lambade	Head of Computer Engg.	Government Polytechnic, Nagpur
3.	Ms. Isha G. Lokhande	Lecturer in Information Technology	Government Polytechnic, Nagpur.
4.	Mr. R.L.Meshram	Lecturer in Information Technology	Government Polytechnic, Nagpur.
5.	Mr. S. Khatri	Lecturer in Computer Engineering	Government Polytechnic, Nagpur.
6	Prof. Manoj Jethawa	HOD, Computer Science	ShriDattaMeghe Polytechnic, Nagpur
7	Prof. N. V. Choudhari	Asst. Professor(CSE),	DBACOE, Wanadongari,

			Nagpur
8	Mr. Atul Upadhyay	CEO	Vista Computers, Ramnagar, Nagpur

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(Member Secretary PBOS)   **(Chairman PBOS)**