

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY

FACULTY OF COMPUTER APPLICATIONS

DEGREE OF MASTER IN COMPUTER MANAGEMENT

M. C. M.

(Two-year Postgraduate Degree Course)

TO BE EFFECTIVE FROM JUNE 2010

**Regulation
For
Award of M.C.M.**

**To Be Implemented From
The Academic Year 2010 – 11**

GANPAT UNIVERSITY
Faculty of Computer Science
Choice Based Course Credit Semester System

Objective:

The basic objective of the programme is to develop the good IT managers, who can contribute to uplift their organization by their excel skill of Information Technology.

The curriculum would focus on imparting skills, necessary for developing a career in the field of business applications of computer, in emerging global scenario which emphasize e-business in all sectors of the economy. So that we can develop IT professional with good analytical skill, reporting skill, programming skill, networking and trouble-shooting skill. So they can contributes in management decisions, development of website, maintain/upgrade the software applications and network, and work as a good team member.

Program Information:

The duration of the M. C. M. programme shall be two years, divided in four semester's i.e Sem-I, Sem-II, Sem-III, and Sem-IV. All four semesters shall not be offered simultaneously. In general, semesters-I and III shall be offered in the first half of academic year and semesters-II and IV shall be offered in the second half of the academic year. The medium of the instruction/Examination will be English.

Eligibility Criteria:

1. The eligibility criteria for admission to first year of two year M. C. M. programme must have passed bachelor's degree examination under (10+2+3) or (10+2+4) pattern in any discipline. The preference will be given to candidate having Computer/ Management background.
2. Candidate who has passed an equivalent examination from university other than Ganpat University shall have to produce the Eligibility Certificate from the Ganpat University.

Eligibility for Semester Examination:

- Eligibility for appearing in any semester examination for M. Sc. (CA & IT) programme shall be granted, provided The student has registered at least 75 % attendance in theory and practical separately; the minimum requirement may be condoned up to 10%, with the approval of Director on the recommendation of Principal in individual cases for valid reasons.
- Student has to show good conduct and behavior within campus during the studies.

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Ganpat University Regulation for CBCS

All other rule and regulations for the program will be applicable as per Ganpat University regulation for Post Graduate Programmes.

Program Structure for M.C.M.

Notation:

A = Core Courses and Complementary Courses

B= Common Courses / Open Courses

M.C.M. Semester-I Program Structure

Sr. No.	Course Code	Course Name	Instruction Hours per Week			Credit			Total Credits	Course Type
			Th.	Tu.	Pr.	Th.	Tu.	Pr.		
1	P31A1BPR	BASIC PROGRAMMING	2	1	4	2	1	2	5	A
2	P31A2BWP	BASIC WEB PROGRAMMING	2	1	4	2	1	2	5	A
3	P31A3OSA	INTRODUCTION TO OPERATING SYSTEM & APPLICATION MANAGEMENT	2	1	4	2	1	2	5	A
4	P31A4OAT	OFFICE AUTOMATION TOOLS	0	1	2	0	1	1	2	A
5	P31A5FIT	FUNDAMENTAL OF INFORMATION TECHNOLOGY	2		--	2		--	2	A
6	P31B6OBM	PRINCIPLE MANAGEMENT PRACTICES & ORGANIZATION BEHAVIOR	2		--	2		--	2	B
7	P31B7CS	COMMUNICATION SKILLS	3		--	3		--	3	B
Total			13	4	14	13	4	7	24	

M.C.M. Semester-II Program Structure

Sr. No.	Course Code	Course Name	Instruction Hours per Week			Credit			Total Credits	Course Type
			Th.	Tu.	Pr.	Th.	Tu.	Pr.		
1	P32A1OOP	OBJECT ORIENTED PROGRAMMING	2	1	4	2	1	2	5	A
2	P32A2NET	NETWORKING	2	1	2	2	1	1	4	A
3	P32A3DMS	DATABASE MANAGEMENT SYSTEM	3		4	3		2	5	A
4	P32A4WP1	WEB PROGRAMMING -I	3		2	3	--	1	4	A

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5	P32B5ERP	ERP & TECHNOLOGY IN MANAGEMENT	3		--	3	--	--	3	B
6	P32A6ESC	E-SECURITY & CYBER LAW	3		--	3	--	--	3	A
Total			16	2	12	16	2	6	24	

M.C.M. Semester-III Program Structure

Sr. No.	Course Code	Course Name	Instruction Hours per Week			Credit			Total Credits	Course Type
			Th.	Tu.	Pr.	Th.	Tu.	Pr.		
1	P33A1WP2	WEB PROGRAMMING –II	2	1	4	2	1	2	5	A
2	P33A2WFR	WEB PROGRAMMING FRAMEWORKS	2	1	2	2	1	1	4	A
3	P33B3SAP	STUDY OF ERP TOOLS	2	1	10	2	1	5	8	B
4	P33A4PMA	PROJECT MANAGEMENT	3	1	--	3	1	--	4	A
5	P33A5PRJ	PROJECT DISSERTATION	1	--	4	1	--	2	3	A
Total			10	4	20	10	4	10	24	

M.C.M. Semester-IV Program Structure

Sr. No.	Course Code	Course Code	Credit			Total Credits	Course Type
			Th.	Tu.	Pr.		
1	P34A1PRJ	INDUSTRIAL PROJECT	-	-	24	24	A
Total					24	24	

Semester	Total Credit	Core Courses and Complementary Courses	Common Courses / Open Course
I	24	19	5
II	24	21	3
III	24	16	8
IV	24	24	
TOTAL	96	80	16

GANPAT UNIVERSITY
MCM SEM-I
P31A1BPR : BASIC PROGRAMMING

Credit		
Th.	Tu.	Pr.
2	1	2

Examination Scheme (Marks)					
INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.
30	20	70	30	100	50

Total Sessions: 62 (Theory (42) + Practical (20))

Basics of Programming(13)

- **Problem Solving Methods: (3)**

Problem Solving Methods with example: Algorithms and Flowcharts (2), Types of programming languages (1)

- **Overview of C (2)**

Introduction, Importance of C, Sample C programs, Basic structure of C programs, Programming style, Executive a C program. (2)

- **Constants, Variables and data Types (3)**

Introduction, Character Set, C tokens, Keywords and Identifiers, Constants, Variables (1), Data types, Declaration of Variables, Assigning values to variables, Defining symbolic constants.(2)

- **Operators and Expression: (3)**

Introduction, Arithmetic of Operators, Relational Operators, Logical Operators, Assignment Operators, Increment and Decrement Operators, Conditional Operators (1), Bit-wise Operators, Special Operators, Arithmetic Expressions, Evaluation of expressions(1), Precedence of arithmetic operators, Some computational problems, Type conversions in expressions, Operator precedence and associativity, Mathematical function.(1)

- **Management Input and Output Operators: (2)**

Introduction, reading a character, writing a character (1), formatted input,

formatted output. (1)

Decision Controls (7)

- **Decision Making branching: (3)**

Introduction, Decision making with IF statement, Simple IF statement, the IF ELSE statement, nesting of IF ... ELSE statements (1), The ELSE IF ladder, the switch statement, and the ternary (? :) Operator, the GOTO statement (2)

- **Decision Making Looping: (4)**

Introduction, the WHILE statement (1), the DO statement (1), The FOR statement (1), Jumps in loops Break and continue. (1)

Array and String (6)

- **Array: (3)**

Introduction, One-dimensional arrays (1), Two-dimensional arrays, Initialization of two-dimensional arrays (1), Concept of Multidimensional arrays (1).

- **Handling of Character strings (3)**

Introduction, Declaring and initializing string variables, Reading string from terminal, Writing string to screen, Arithmetic operations on characters(1), Putting string together, String Operations: String Copy, String Compare, String Concatenation And String Length(1), String Handling functions, Table of strings. (1)

User Defined Data Structures (7)

- **User-Defined Functions:(3)**

Introduction, Need for user-defined functions, The form of C function, Return values and their types, Calling a function, category of functions(1), Handling of non-integer functions, Nesting of functions, Recursion(1), Functions with arrays, The scope and Lifetime of variables in functions, ANSI C functions.(1)

- **Structures and Unions:(4)**

Introduction, Structure definition, Giving values to members, Structure initialization, Comparison of structures(2), Arrays of structures, Arrays within structures, Structures within Structures(1), Structures and functions, Unions, Size of structures, Bit fields(1).

Advance topics in C (9)

- **Pointers: (4)**

Introduction, Understanding pointers, Accessing the address of variable, Declaring and initializing pointers, Accessing a variable through its pointer(1), Pointer expressions, Pointer increments and scale factor, Pointers and arrays(1), Pointers and character strings, Pointers and Functions(1), Pointers and structures.(1)

- **File Management in C (3)**

Introduction, Defining files and its Operations (1), Error handling during I/O operations, Random access files, Command line arguments.(2)

- **Dynamic Memory Allocation (2)**

Introduction of Memory allocation functions(malloc, calloc, free, realloc)
(2)

Reference Books:

(1) "Programming in C" by Pradip dey and Manash Ghosh

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- (2) Programming in ANSI-C By E. Balaguruswami, TMH Publication
- (3) Let us C By Yashwant Kanetkar, BPB Publication
- (4) C Programming language By Kernighan, Brian, W, Retchie, Dennis PHI Publication

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Basics of Programming (10 marks)**)

Q-3 (Must be From topics: **Decision Controls (6marks)**)

Q-4 (Must be From topics: **Array and String (5 marks)**)

Q-5 (Must be From topics: **User Defined Data Structures (6marks)**)

Q-6 (Must be From topics: **Advance topics in C (8 Marks)**)

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GANPAT UNIVERSITY

M. C. M SEM-I

P31A2BWP : BASIC WEB PROGRAMMING

Credit			Examination Scheme (Marks)					
			INTERNAL		EXTERNAL		TOTAL	
Th.	T	Pr.	Th.	Pr.	Th.	Pr.	Th.	Pr.
2	1	2	30	20	70	30	100	50

Total Sessions: 60 (35 Tutorial + 25 Practical)

Prerequisite:

Must know about Basic Methodology of Computer

Must know about Basic Computer Knowledge

Web Design Concepts: (4)

- A brief Introduction to the Internet, Internet services(1)
- Working of Internet, Introduction to World Wide Web, URLs(1)
- Hypertext Transfer Protocol, Introduction to web server and web browser (1)
- Web Design, Usability of site, Web users, Types of Web Users(1)
- Web convention, accessibility, Site structure, and site organization model (1)

Java Scripts: (11)

- Client-Side Technologies ,Variables declaration, If...Else statement(2)
- Switch statement, Operators statement , Popup Boxes, Functions(2)
- For Loop, While Loop, Break Loops, For...In (4)

Introduction to HTML: (8)

- Understanding HTML, Create a Web Page, Linking to other Web Pages,(2)
- Publishing HTML Pages , Text Alignment and Lists(2)
- Text Formatting Fonts Control, Email Links and link within a Page(2)
- Creating Web Page Graphics, Putting Graphics on a Web Page(3)

Advanced HTML: (8)

- Custom Backgrounds and Colors, Advanced Layout with Tables(2)
- Working with Frame, Creating HTML Forms, Using Style Sheets(2)
- Features of Style Sheet , Body Style, Link Style, List Style, Table Style(2)
- Font style, Concept of search engines, searching the Web.(2)

Macro-Media (4)

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- Introduction to Dream weaver: Planning and creation of your Site(1)
- Site Management, Designing Page Layout, Browsing Menus(1)
- Inserting and Formatting Text, Inserting Images, Inserting Tables(1)
- Inserting Frames, Working with Forms (2).

Reference Books:

- (1) Introduction to Internet and HTML Scripting, By Bhamik Shroff –Third Edition
- (2) SAMS Teach Yourself HTML in 24 hours, Tec media.
- (3) Spring into HTML and CSS, Molly E. Holzchlag, Low Price Edition PEARSON EDUCATION
- (4) Macromedia Dream weaver by Macromedia Inc
- (5) The complete reference web design Thomas a. Powell, TATA McGraw-Hill, Second Edition

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Web Design Concepts: (6 marks)**)

Q-3 (Must be From topics: **Java Scripts: (8 marks)**)

Q-4 (Must be From topics: **Introduction to HTML: (8 marks)**)

Q-5 (Must be From topics: **Advanced HTML: (8 marks)**)

Q-6 (Must be From topics: **Macro-Media (5 marks)**)

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M.C.M. SEM-I**

**P31A3OSA: INTRODUCTION TO OPERATING SYSTEM & APPLICATION
MANAGEMENT**

Credit		
Th.	T	Pr.
2	1	2

Examination scheme (Marks)					
INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.
30	20	70	30	100	50

Total Session: 35 Theory + 20 Practical

Concepts of Operating System (7)	
<ul style="list-style-type: none"> • Definition and needs of OS, Logical Architecture of a Computer System (1) • Process Management – Uniprogramming System, Multiprogramming System (Process States, Process Control Block, Multitasking, Multithreading, Multithreading System, Multiprocessing, Multiprocessing System, Time Sharing(1) • Memory Management – Uniprogramming Memory Model, Multiprogramming Models, Virtual Memory(1) • File Management – File Access Methods, File Operation, File Naming,(1) • Security – External Security, Internal Security(1) • Command Interpretation – Command Line interface, Graphical User Interface (1) • Overview : Unix OS, MS-Dos, Microsoft Windows, Microsoft Windows NT, Linux (1) 	
OS Server Installation and Management (10)	
<ul style="list-style-type: none"> • Preparing for installation – Checking System Requirements, Dual- Boot(1) • Installing Windows Server 2008 (3) • Setting Up and Managing a Network – Dynamic Host Configuration Protocol (DHCP) , DNS (Domain Name System) , and WINS (Windows Internet Naming Service (WINS), Setup User Accounts and Group Permissions (3) • Using Active Directory and Domains – Integration with DNS, Install Active Directory, Replicate Active Directory among Sites (3) 	
Configuration of Network Component (9)	
<ul style="list-style-type: none"> • Internet Information Services Version 7 - Setting Web Server, Customize and Maintain IIS7 (2) • Virtual Private Networking – Prepare & Setting Up VPN (2) • Terminal Services and Remote Desktop – Set up Terminal Services (1) • Managing Storage and File Systems – File Service and Disk Management Setting Up and Managing Printing (3) 	

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<ul style="list-style-type: none">• Managing Printing – Set up Printing, Printer Queue (1)	
Linux Concept and Installation (9)	
<ul style="list-style-type: none">• Introduction Linux What is Linux, What is Operating System, Common Linux Features (1)	
<ul style="list-style-type: none">• Installing Fedora Quick installation, Detailed installation instructions, Special installation Procedures, Special installation topics, Troubleshooting Installation (4)	
<ul style="list-style-type: none">• Using Linux Command Working with the Linux File System, Creating files and directories, Linux Files Systems Versus Windows- Based File System, Identifying Directories, Moving, copying and deleting files, Using the vi Text Editor, Using Graphical text editors and notepads (3)	
<ul style="list-style-type: none">• User Management Creating User Accounts, Modifying Accounts, Deleting User Accounts (1)	
PRACTICAL :	
⇒ Unix Command	
⇒ Installation of operating System Windows XP (Handling BIOS setup, Partition and Driver Installation)	
⇒ Control Panel (Accessibility Options, Add Hardware, Add or Remove Programs, Administrative Tools, Automatic Update, Date and Time, Fonts, Network Connections, Printers, Regional and Language Option, Security Center, Display Properties and Sound Settings, Device Manager, Taskbar and Start Menu, User Account, Windows Firewall, Msconfig, Registry)	
⇒ Windows Server 2008	
⇒ Fedora Linux	

Reference Books:

- (5) Operating Systems – Computer Fundamentals – P.K. Sinha & Priti Sinha
- (6) Microsoft Windows Server 2008 : A Beginner’s Guide - Marty Matthews, published by McGraw-Hill
- (7) Fedora Bible 2010 Edition – Featuring Fedora Linux 12, Christopher Negus Eric Foster – Johnson
- (8) Windows XP PROFESSIONAL - Training Kit - Walter Glenn & Tony Northrup
- (9) <http://www.microsoft.com/windowsxp>

Note for Examiner

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Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- 35
Questions must be covered all possible section.

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Q-2 (Must be From topics: **Concepts of Operating System (7 marks)**)

Q-3 (Must be From topics: **OS Server Installation and Management (10 marks)**)

Q-4 (Must be From topics: **Configuration of Network Component (9 marks)**)

Q-5 (Must be From topics: **Linux Concept and Installation (9 marks)**)

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GANPAT UNIVERSITY

M.C.M. SEM-I

P31A4OAT : OFFICE AUTOMATION TOOLS

Credit		
Th.	T	Pr.
-	1	1

Examination scheme (Marks)					
INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.
30	20	70	30	100	50

Total Sessions: 45 (15 Theory +15 Tutorial + 15 Practical)

Prerequisite:

Anatomy of Computer

Familiar with Basic Computer Operations

Topics
Dos & Windows (8)
<ul style="list-style-type: none">• Dos: Introductions to DOS, Loading DOS, System prompt, Drive and its operations, Introduction to File & Directory, Creating, changing and listing the directory, Copying, Changing and deleting the files, Internal and external dos commands, Batch file, Commands of Batch file (6)• Windows: History of windows, The desktop, Working with window and mouse, Working with My computer, Windows explorer, recycle bin, notepad, calculator, WordPad, paint (2)
MS-Word (7)
<ul style="list-style-type: none">• Introduction to word, Applications of word processor, Editing a document, move and copy Text, Autocorrect and auto text, Formatting Text and Paragraph, Find and Replace Text, Spell Check, Tabs and indentation, Enhancing a document (4)• Different Views of document and its use, Bullets & Numbering, Page Setup, Columns, Tables and Other Features, Use of Formula in Table, Graphics, Templates and Wizards, Header, Footer, Footnote, Caption, Bookmark, Mail Merge. (3)
MS-Excel (11)

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- Introduction to Worksheet and Work Book, Application of Excel, Cell, Addressing modes, Commands, Functions, Move/Copy text, Insert/Delete Rows and Columns, Freeze Panes, Splitting the worksheet. (4)
- Formatting a Worksheet, Print the workbook, Charts, Naming Ranges, and Database in a worksheet, Conditional Formatting, Filtering the data from database, Additional Formatting Commands, Drawing toolbar, Goal Seek, Scenario, Creating series, worksheet titles, Multiple Workbooks, Pivot table, Macros and Hyperlinks (4)
- Functions: Date and Time function, Statistical, Math and Financial Functions, Database functions (3)

MS-Power point and Computer Virus (4)

- Introduction to PowerPoint, Creating a Presentation, PowerPoint views, Slide show, printing a Presentation, Formatting slides, Slide transition & adding special effects, Inserting pictures, sound, chart. (2)
- Introduction to Computer Virus, Types of Virus, Secure our PC from Virus. (2)

Reference Books:

- (1) Working with Personal Computer by R P Soni, Harshal Arolkar and Sonal Jain – Books India Publication.
- (2) PC Software for windows made simple by Taxali R.K.-Tata McGraw-Hill Publishing Co. LTD.
- (3) The Complete Reference Office 2000 by Stephen L.Nelson. Tata McGraw-Hill Publishing Co. LTD.

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Dos & Windows (9 marks)**)

Q-3 (Must be From topics: **MS-Word (9 marks)**)

Q-4 (Must be From topics: **MS-Excel (11 marks)**)

Q-5 (Must be From topics: **MS-Power point and Computer Virus (6 marks)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

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GANPAT UNIVERSITY**MCM SEM-I****P31A5FIT : FUNDAMENTAL OF INFORMATION TECHNOLOGY**

Credit		Examination Scheme (Marks)					
		INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.	Th.	Pr.
2	-	30	-	70	-	100	-

Total Lecture of theory: 41

Introduction to information technology: (7) Data and Information, Features of Information (1),Types of Languages, Low level V/s High level languages, Generations of Programming Language(3),Introduction of Machine, Assembly and Fourth Generation Language (3)
Computer Peripherals: (11) Storage Devices: Floppy Disk, Hard Disk, CD-ROM, DVD (Above all topics Include only principles, types, data storage and Application) (4) Input Devices: Key Board, Mouse, Touch screen, Scanner (Above all topics Include only principles, types and Application) ,Other Input Methods:- OMR,MICR,OCR (4),Output Devices: VDU (Computer Graphics, Working of CRT, Resolution of different VDU), Printer (Characteristic, Classification, Working, principle, Uses)(3)
Fundamental of Computer Network: (12) Concepts of Analog and digital signal, Type of Networks (LAN, MAN, WAN etc)(3),Protocols, Introduction to communication devices (MODEM, NIC (Network Interface Card) (Principles, Baud rate, Application))(3),Introduction of Transmission media (Twisted Pair, Coaxial Cables, Optical Fiber) (3),Introduction of Communication Techniques and Types (Circuit switching, message switching and packet switching with advantage and disadvantage) (3)
Introduction to language processor, software and communication methods: (7) Language Processor: Compilers, Interpreter, Assemblers, Difference between Compiler-Assembler-Interpreter ,Types of Software: System Software, Application Software (4) An Ideal Micro Computer, An Actual Micro Computer [Internal Structure of Microprocessor (CPU), Data Bus, Address Bus, Control Bus (3)
Memory Management & I/O Communication Method: (4) Primary & Secondary Memory (RAM, ROM, PROM, EPROM), Cache Memory, function of Cache Memory) (2)

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Programmed I/O, Interrupts, Direct Memory Access (DMA) (2)

Reference Books:

- (1)'O' Level Simple: Information Technology by Satish Kumar-BPB Publications
- (2)Fundamentals of computer by V.Rajaraman-PHI Publications.
- (3) Structure computer Organization by Andrew S. Tanenbaum-PHI Publications.
- (4) Computer Networks, Andrew S. Tanenbaum, Prentice Hall of India
- (5) Information Technology concepts by Dr. Madhulika Jain, shashank Jain, satish Jain

Published by BPB publication

- (6) http://csciwww.etsu.edu/tarnoff/ntes4717/week_06/IO.ppt

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Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Introduction to information technology: (6 marks)**)

Q-3 (Must be From topics: **Computer Peripherals: (9 marks)**)

Q-4 (Must be From topics: **Fundamental of Computer Network: (9 marks)**)

Q-5 (Must be From topics: **Introduction to language processor, software and communication methods: (6 marks)**)

Q-6 (Must be From topics: **Memory Management & I/O Communication Method: (5 marks)**)

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GANPAT UNIVERSITY

M.C.M. SEM-I

P31B6OBM : PRINCIPLE MANAGEMENT PRACTICES & ORGANIZATION BEHAVIOR

Credit	
Th.	Pr.
2	-

Examination scheme (Marks)					
INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.
30		70		100	

Total Session: 30

Introduction to management and corporate social responsibility (6)	
Historical Development: Definition of Management, Science or Art, Management and Administration, Development of Management Thought Contribution of Taylor and Fayol, Functions of Management, Types of Business Organization, Business Ethics and Social Responsibility: Concept, Shift to Ethics, Tools of Ethics. (6)	
Functions of management (6)	
Planning: decision making, planning and strategic management, strategy implementation; Organizing: organizational design and organizational structure, power and distribution of authority, managing organizational change and innovation; Leading: Motivation, leadership teams and teamwork, communication and negotiation; Controlling: effective control, operations management, information systems.(6)	
Introduction to organization behavior (6)	
Organizational Behavior (OB): Concept, nature, characteristics, conceptual foundations, determinants and importance; concept of knowledge management & Emotional Intelligence in contemporary business Organization. (6)	
The individual behavior (6)	
Perception: Concept, nature, process, importance. Management and behavioral applications of perception. Attitude: Concept, process, and importance. Attitude measurement. Personality: Concept, nature, types And theories of personality shaping. Learning: Concept and theories of Learning. (6)	
The group and organization system (6)	
The Group: foundation of group behavior, understanding work teams, communication, power and politics, conflicts, negotiation and inter-group behavior; Organization System: foundations of organization Structure, technology, work design and stress, organizational culture. (6)	

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SUGGESTED READINGS:

1. Weihrich Heinz and Koontz Harold - Management: A Global and Entrepreneurial Perspective (Mc Graw Hill, 12th Edition 2008)
2. Stoner, Freeman & Gilbert Jr - Management (Prentice Hall of India, Latest Edition)
3. Stephen P. Robbins, Organization Theory – Structure, Design and Applications, Prentice Hall of India, New Delhi, Third or later edition.
4. Bateman, Management (SIE), Tata McGraw-Hill Publishing Company, New Delhi.
5. Decenzo David, Robbin Stephen A, "Personnel and Human Reasons Management", Prentice Hall of India, 1996.
6. Understanding Organizational Behavior, by Udai Pareek, Oxford University Press.
7. Organizational Behavior by Mcshane and Radha Sharma, McGraw-Hill.
8. Organizational Behavior by Stephan Robbins, Pearson Education.

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Introduction to management and corporate social responsibility (7 marks)**)

Q-3 (Must be From topics: **Functions of management (7 marks)**)

Q-4 (Must be From topics: **Introduction to organization behavior (7 marks)**)

Q-5 (Must be From topics: **The individual behavior (7 marks)**)

Q-6 (Must be From topics: **The group and organization system (7 marks)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY

M.C.M-SEM-I

P31B7CS : COMMUNICATION SKILLS

Credit	
Th.	Pr.
3	--

Examination scheme (Marks)					
INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.
30	--	70	--	100	--

Total Lectures for Theory=46

<u>Technical and Business Communication: (11)</u>
<ul style="list-style-type: none">• The Process of Communication (2)• Methods of Communication: Verbal and Non Verbal Communication (3)• Barriers to Communication- Physical, Language, Psychological, Status, Cultural Barriers (3)• Principles of Effective Business Communication-(4 'C' - clarity, conciseness, correctness, courtesy) (2)• The Flow of Communication(1)
<u>Technical and Business Correspondence (11)</u>
<ul style="list-style-type: none">• Style & Structure (parts) of Letter Writing (2)• You Attitude in Letter Writing (1)• Job Application Letters, Elements of Structure, Preparing the Resume.(1+1+1)• <u>Official or Formal Correspondence</u>: Letters of General Inquiry, Reply, Invitation, Request, Complaint , Office Memorandums, Circulars ,Notice etc (2)• <u>Business Letters</u>: Letters of Inquiry, Order, Complaint, Adjustment, Sales Collection etc. (3)
<u>Group Discussion: (7)</u>
<ul style="list-style-type: none">• Organizational Group Discussions(1)• GD as Part of a Section Process, Characteristics of Gd,(1+1)• Evaluation Components in Gd (knowledge, communication skills, Group behavior, Leadership skills)(2)• Gd Based on a Topic/Case study (2)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

<u>Effective Presentations Strategies : (10)</u>
<ul style="list-style-type: none">• Defining Purpose,(1)• Analyzing Audience, (1)• Communication Environment, (1)Use of Visuals, Organizing Content,(1+1)• Kinesics, Para linguistics.(2+1)• Extemporaneous, Manuscript, Impromptu Presentations (1)• Boredom Factors in Presentation and How to Overcome Them, (1)
<u>Interviews: (7)</u>
<ul style="list-style-type: none">• Types of Interviews (2)• Skills and Qualities Evaluated in the Job Interviews (2)• Failure and Success Factors in Interviews, Mock Interviews (1+1)• How a candidate should prepare for an Interview (1)

Reference Books:

1. Technical Communication by Meenakshi Raman &Sangeeta Sharma- Oxford University Press
2. Principal and Practice of Business Communication by Rhoda Doctor, Aspi Doctor-Sheth Publishers
3. Essentials of Business Communications by Rajendra Pal, J. S. Korlahalli-Sultanchand & Sons Publications
4. Business Correspondence and Report Writing by R. C. Sharma, Krishana Mohan-TMH Publication
5. Grammar Guide by Gordan Jarvie-Blooms Bury Publications
6. English Grammar and Composition by Wren & Martin;
7. Living English Structure by W. Stannard Allen-Orient Longman Ltd.
8. English Conversation Practice by Grant Taylor- TMH Publication
9. Resumes and Interviews by M Ashraf Rizvi- Tata Mc Graw hill
10. 101 Great Resumes- Jaico Publishing House
11. Repidex -Self Letter Drafting Course
12. Communicative English by Prakash Khuman, Bhupesh Khuman

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Technical and Business Communication: (9 marks)**)

Q-3 (Must be From topics: **Technical and Business Correspondence (9 marks)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Q-4 (Must be From topics: **Group Discussion: (4 marks)**)

Q-5 (Must be From topics: **Effective Presentations Strategies : (8 marks)**)

Q-6 (Must be From topics: **Interviews: (5 marks)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY
MCM - SEM-II
P32A1OOP : OBJECT ORIENTED PROGRAMMING

Credit			Examination Scheme (Marks)					
			INTERNAL		EXTERNAL		TOTAL	
Th.	Tu.	Pr.	Th.	Pr.	Th.	Pr.	Th.	Pr.
2	1	2	30	20	70	30	100	50

Total Session: 70 (Theory (48) + Practical (22))

Introduction to Java and Basic Concepts: (13)
<ul style="list-style-type: none"> • Introduction to Java(6) Object-Oriented Paradigm (2) Basic Concepts: Data Abstraction, Encapsulation, Inheritance, Polymorphism, Dynamic Binding (1) What is Java, JDK and JRE ? (1) The main() method, A First Java Program, Compiling and Interpreting Applications (2) • Data types and Variables: (4) Primitive Datatypes, Declarations and scope (1) Variables and constants (1) Numeric Literals, Character Literals, String, String Literals (1) Arrays, Non-Primitive Datatypes (1) • Operators and Expressions: (3) Expressions, Assignment Operator, Arithmetic Operators, Relational Operators, Logical Operators, Increment and Decrement Operators, Operate-Assign Operators (+, etc.), The Conditional Operator, Operator Precedence. (2) Implicit Type Conversions , The Cast Operator , Generic type casting (1)
Decision Making, Branching and Looping (4)
If..Else statements, Nesting of IF.. Else statements, Else..if ladder. Switch, break and continue Statement (2) While loop, do-while, for loop (1) Enhanced for loop (1)
Introduction to Class, Method and Object: (9)
Creating class and Methods (1) Calling Methods, Defining Methods, Method Parameters, Creating objects, new keyword, Scope (3) Constructors, destructors and garbage collector (1) Accessing class members and member functions, method overloading, method overriding (1) Static, final, abstract methods and classes, interface (2) Public, private, protected, default, friend access (1) Inheritance : Extending classes, Subclass, Multilevel inheritance, Hierarchical inheritance (1)
Arrays, Strings, Vectors: (8)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Creating and initializing array, Two-dimensional array, Variable size array (3) String, String array, String methods, StringBuffer class (3) Vectors (1) Wrapper classes , autoboxing and Unboxing (1)
Packages, Exception and Introduction of UML: (14)
<ul style="list-style-type: none">• Packages (3) Using system package, Naming conventions, creating packages, accessing package (2) Static import (1)
<ul style="list-style-type: none">• Managing errors and Exceptions: (7) Types of error, Compile time and run time errors (1) Exceptions, Exception handling code and syntax (1) Try-catch blocks, multiple catch statements. Finally block (2) User-defined exceptions, difference between throw and throws (3)
<ul style="list-style-type: none">• UML(4) Introduction to UML, Classes, Advanced Classes, Relationships, Advanced Relationships, Interfaces, types, Roles, Packages, Class Diagram, Use-case Diagram (4)

Reference Books:

1. Programming with Java 3e by E. Balagurusamy, Tata McGraw Hill Publication
2. Head first java by Kathy Sierra & Bert Bates, O'Reilly
3. Complete reference Java by Herbert Schildt, Tata McGraw Hill
4. The Unified Modeling Language User Guide By Booch, Rumbaugh, Jacobson Low Price Edition Publication
5. UML Bible by Tom Pender ,Publishing Inc.
6. Teach Your Self UML in 24 hours by Joseph Schmuller ,Pearson Education.

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Introduction to Java and Basic Concepts: (8)**

Q-3 (Must be From topics: **Decision Making, Branching and Looping (4)**

Q-4 (Must be From topics: **Introduction to Class, Method and Object: (8)**

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Q-5 (Must be From topics: Arrays, Strings, Vectors: (6)

Q-6 (Must be From topics: Packages, Exception and Introduction of UML: (9)

GANPAT UNIVERSITY**MCM-SEM-II****P32A2NET : NETWORKING**

Credit		
Th.	T	Pr.
2	1	1

Examination scheme (Marks)					
INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.
30	20	70	30	100	50

Total Session : 53 (Theory 33 + Practical 20)

COMPUTER NETWORK CONCEPT & COMPONENTS (9)
<ul style="list-style-type: none"> INTRODUCTION TO COMPUTER NETWORK (6) Need of Computer Network, Advantages of Computer Network, Uses of Computer Network, Network Models, Categories of Networks and Internetworks, Line Configurations, Topology Study of Reference Models : Need of Layers, Design Issues of Layers, ISO/OSI Model, TCP/IP Model, A Comparison of OSI and TCP Reference Model, Asynchronous Transfer Mode (ATM)
<ul style="list-style-type: none"> NETWORK CONCEPTS AND COMPONENTS (3) Network Concepts : Wireless Networks, Layered Approach, Interfaces, Services, Protocols, Brief Study of X.25 Protocol, Intranet and Extranet Network Components : Cabling and Connector Standards, Network Interface Card, Bridges/Switches, Routers, Concentrators, Hubs, Repeaters, Gateways, SDN
PHYSICAL LAYER, DATA LINK LAYER AND MEDIA ACCESS SUBLAYER (11)
<ul style="list-style-type: none"> Physical Layer: (2) Transmission Media : Guided Media, Unguided Media Modems: Introduction, Types of Modems, Block Schematic of Modems
<ul style="list-style-type: none"> Data link layer: (3) Framing Methods, Error Control-Detection and Correction, Flow Control, Elementary Data Link Protocols, Sliding Window Protocols : Stop and Wait Sliding Window Protocol, Sliding Window Protocol with Go-Back-N, Sliding Window Protocol with Selective Repeat
<ul style="list-style-type: none"> Medium Access Sublayer: (6) Channel Allocation : Static Channels Allocation, Dynamic Channel Allocation Types of Access Protocol : ALOHA, CSMA(Carrier Sense Multiple Access), WDMA(Wavelength Division Multiple Access) IEEE Standards : IEEE 802.3: Ethernet, IEEE 802.4: Token Bus, IEEE 802.5: Token Ring Satellite Networks : Polling, ALOHA, FDM(Frequency Division Multiplexing), TDM(Time Division Multiplexing), CDMA(Code Division Multiple Access)
NETWORKING AND INTERNETWORKING (7)
<ul style="list-style-type: none"> NETWORK LAYER (3)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Routing Algorithms : Shortest Path Routing, Flooding, Flow Based Routing, Distance Vector Routing, Link State Routing, Broadcast Routing (Routing for Mobile Hosts)
Congestion Control : Congestion Control Principles, Congestion Prevention Policies
<ul style="list-style-type: none">• INTERNETWORKING (4)
Internetworking Devices, Concatenated Virtual Circuits, Connectionless Internetworking, Tunneling, Routing, Fragmentation, Firewalls
TCP/IP Protocol Suit Overview : TCP/IP versus OSI Model, Network Layer In the Internet, Internet Protocol, IP Addresses, Subnetting, Internet Control Protocol
TRANSPORT LAYER AND UPPER LAYER(6)
<ul style="list-style-type: none">• TRANSPORT LAYER (2)
Service Primitives, Elements of Transport Protocol, TCP(Transmission Control Protocol, UDP(User Datagram Protocol)
<ul style="list-style-type: none">• UPPER LAYER (4)
Network Security, Cryptography, Secret Algorithms, Encryption with Public Keys, Private Keys, Session Layer Operation and Services, SNMP(Simple Network Management Protocol), DNS(Domain Name System), Application Layer Services
Practical Approaches (10) Remote Assistance Desktop Sharing Net meeting Configuration (Team Viewer) Crimping Firewall Configuration Wi-Fi router Configuration VPN Configuration Manageable Switch Configuration
Server Configuration (08) Creating workgroup, domain and active directory (03) LAMP, XAMP, WAMP (03) Configuring Samba Server (01)
Reference Books : 1. Computer Network : S.S.Shinde, New Age International Publisher (Text Book) 2. Data Communication and networking - Behrouz A.Forouzan Tata McGraw-Hill, New Delhi 3. Data and Computer Communications - William Stallings Prentice-Hall of India, Eighth Edition 4. Computer Networks Andrew - S.Tanenbaum Prentice-Hall of India, New Delhi

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Computer Network Concept & Components (9 marks)**)

Q-3 (Must be From topics: **Physical Layer, Data Link Layer And Media Access Sublayer (11 marks)**)

Q-4 (Must be From topics: **Networking And Internetworking (8 marks)**)

Q-5 (Must be From topics: **Transport Layer And Upper Layer (7 marks)**)

GANPAT UNIVERSITY**MCM-SEM-II****P32A3DMS : DATABASE MANAGEMENT SYSTEM**

Credit		
Th.	Tu.	Pr.
3	--	2

Examination scheme (Marks)					
INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.
30	20	70	30	100	50

Total Sessions: 45**Basic Database Concepts and Database Terminology(8 Sessions)**

Introduction, Operational data, What is DBMS(1), Purpose of DBMS(1), Structure of DBMS, Data Models: Hierarchical, Network and Relational(2), Database Administrator, Role of DBA(1), What is RDBMS, what is the difference between DBMS and RDBMS(1), Database terms: Relation, Entity, Domain, Tuple, Attribute, Cardinality, Erity, Primary key, Super key, Candidate key, alternate key.(2)

Normalization(5 Sessions)

Introduction, First, second and third normal forms(2), dependency preservation, Boyce/Codd normal form(1), multi-valued dependencies and fourth normal form(1), join dependencies and fifth normal form(1)

Structured Query Language.(12 sessions)

Introduction to SQL, Data types (1), DDL and DML commands: create, alter, drop, truncate (2), select, insert, delete, update, rename. Sorting data in a table with order by clause(3), Selecting data using computations: Arithmetic & Logical operators, range searching & pattern matching(1), Oracle functions(1), Retrieving data using Group by and having clauses, Data constraints(1), Different types of Joins(1), Set Operators, Line editing Commands(1), Queries related to the previous commands(1).

Decision Support System(11 Sessions)

Introduction, Types of DSS(1), Components of DSS(1), Applications of DSS: DSS for Supply Chain Management(1), DSS for Customer Relationship Management(1), Data Visualization and Geographic information systems(1), Web-based Customer decision support system(1), Group decision support system(1), Executive support systems(1), Cases related to previous topics(3).

Data Warehouse and Data Mining.(9 Sessions)

An overview: Data Warehouse, Data Mart(1), Metadata: Types of Metadata, Sources of Metadata, Online analytical processing (2), Discovery v/s Verification Mode analysis, Data Mining Process(1), Application Domains(1), Data Mining Techniques: Classification, Association Detection, Sequential Pattern(1) Detection, Automatic Cluster Detection and Similar Time Sequence Detection(1). Discussion for Practicals related to

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Data Mining by using any tool like SPSS or Weka (2).

Reference Books:

- (1) An Introduction to Database Systems by C.J.Date(Eighth Edition)
- (2) An Introduction to Database Systems by C.J.Date(Third Edition)
- (3) SQL,PL/SQL The Programming Language of Oracle by Ivan bayross(2nd Edition)
- (4) Management Information Systems by Kenneth C. Laudon & Jane P. Laudon.
- (5) An Introduction to building the Data Warehouse by IBM.
- (6) Oracle 8i DBA bible by Jonathan Gennick.

Question Paper Scheme:

University Examination Duration: 3 Hours.

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Basic Database Concepts and Database Terminology(6 marks)**)

Q-3 (Must be From topics: **Normalization(4 marks)**)

Q-4 (Must be From topics: **Structured Query Language.(9 marks)**)

Q-5 (Must be From topics: **Decision Support System(8 marks)**)

Q-6 (Must be From topics: **Data Warehouse and Data Mining.(8 marks)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY

M.C.M SEM-II

P32A4WP1 : WEB PROGRAMMING -I

Credit	
Th.	Pr.
3	1

Examination scheme (Marks)					
INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.
30	20	70	30	100	50

Total Sessions: 64 (44 Theory + 20 Practical)

JavaScript: (14) Client-Side Technologies (1), Variables declaration, If..Else statement, Switch statement(1), Operators statement, Popup Boxes(1), Functions, For Loop, While Loop, Break Loops, For...In(1), Events(2), Try...Catch, Throw, on error, (1)Java Script Objects String, Date, Array, Boolean, Math, JS Browser, JS (3)Cookies(1), Validation, Animation, Image Maps(2), Timing, Create Object(1)
Introduction To PHP (10) Web-Technogies, Server side technologies, Web-server, Web-browser, (2) Introduction PHP, Future of PHP, Installation of PHP(1), adding PHP to HTML Syntax and variable, control and function(2), Passing information between page(1), String, Array and Array Function, Date function (4)
Advance concept in PHP (10) Basic PHP construction for OOP, Advance OOP future(3), File and File system function(2), Session, cookies, (3) Exception and Error Handling(2)
MySql , XML and Graphics (10) PHP/MYSQL Connection, PHP/MSSQL Connection and function(3), Display Query in tables, Building forms from queries, (3) E-mail(1), PHP and XML, Graphics(3),

Reference Books:

1. PHP 5 and MySQL Bible publication
2. Beginning PHP, Apache, MySql web Development , wrox publication
3. ABC of Javascript By Purcell lee BPB publication
4. Pure java Script By Gilliam Johnson Techmedia

Note for Examiner

Q-1 must be common from any topics from syllabus.

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **JavaScript: (11 marks)**)

Q-3 (Must be From topics: **Introduction To PHP (8 marks)**)

Q-4 (Must be From topics: **Advance concept in PHP (8 marks)**)

Q-5 (Must be From topics: **MySql , XML and Graphics (8 marks)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY

M.C.M. SEM-II

P32B5ERP - ERP & TECHNOLOGY IN MANAGEMENT

Credit		
Th.	Tu.	Pr.
2	1	4

Examination scheme (Marks)					
INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.	Th.	Pr.	Th.	Pr.
30	20	70	30	100	50

Total Sessions: 38 Theory

ERP Introduction (13)
<ul style="list-style-type: none">• Enterprise Resource Planning – Introduction• What is ERP? Benefits of ERP,• Advantages of ERP,• Reasons for the growth of ERP,• Scenario and Justification of ERP in India,• Evaluation Of ERP,• Various Modules Of ERP – Finance, Production Planning, Control & Maintenance, Sales & Distribution, Human Resource Management (HRM), Inventory Control System, Quality Management, Materials Management• Make a case study for implementing the ERP in the Educational Institute.
ERP Implementation (9)
<ul style="list-style-type: none">• ERP implementation lifecycle and Implementation Methodologies,• Issues in implementing ERP packages,• Vendors, Consultants and users,• In-House Implementation - pros and cons,• Data Warehouse and Data Mining,• ERP and Related Technologies,• Business Process Reengineering (BPR),• Supply Chain Management (SCM),• Customer Relationship Management (CRM)
Introduction to MIS (9)
<ul style="list-style-type: none">• Concept, Definition, Role of the MIS, Impact of the MIS, MIS and computer• Fundamentals of information system, Types of information system, Structure of management information system• Concept of an MIS, MIS design approaches- Prototyping, Lifecycle approach, Project Management• Management in the twenty-firsts Century: Seven – S Model, Organization Structure• Total Quality Control (TQC), Total Quality Management (TQM), and Just-In-Time (JIT) Approach

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

<ul style="list-style-type: none">• Case Studies
Management Support system (7)
<ul style="list-style-type: none">• Overview, Decision making phase, Concept of Decision making• Decision support system, Difference between MIS and DSS• Decision Making System and Modeling, Transaction Processing System (TPS)• Office System, Knowledge Work System (KWS), Executive Support system (ESS).

Referenced Books:

- (1)Enterprise Resource Planning - Alexis Leon
- (2)ERP Ware: ERP Implementation Framework –V.K. Garg & N.K. Venkitakrishnan
- (3)ERP: By Leon, ERP Concepts and Planning - Garg & Venkitakrishnan
- (4)Management Information System-Gorden devis, Margareth s.Oison
- (5)Decision support and expert system- Efraim Turban
- (6)Management Information System, by Kenneth C. Laudon, Jane P. Laudon, 8th Edition,
Pearson Education Publication
- (7)Management Information System, Lucey T BPB publication
- (8)Organization and Management, R D Agarwal TMH publication.
- (9) Kenneth C. Laudon, Jane P. Laudon Management Information System
Eighth Edition

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **ERP Introduction (10)**)

Q-3 (Must be From topics: **ERP Implementation (9)**)

Q-4 (Must be From topics: **Introduction to MIS (9)**)

Q-5 (Must be From topics: **Management Support system (7)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY									
M.C.M SEM-II									
P32A6ESC : E-SECURITY & CYBER LAW									
Credit				Examination scheme (Marks)					
				INTERNAL		EXTERNAL		TOTAL	
Th.	Pr.			Th.	Pr.	Th.	Pr.	Th.	Pr.
3				30		70		100	

Total Sessions: 45

Prerequisite

Networking Terminology – Client, Server, Process, Program.

OSI reference model, TCP reference model, Communication Protocols.

Basic Java Programming

Pros & Cons in Electronic Security (12)									
<ul style="list-style-type: none"> Overview & importance of E-Security, E-Security in real life application and problems, Attack Methods: The difference between targeted attacks and target-of-opportunity attacks, Typical Steps in break-in attacks, Denial-of-Service attacks, Target-of-opportunity malware attacks, Intruders: Intrusion Detection, Password management, Search etc. 									
System & Web Security (Stallings)(13)									
<ul style="list-style-type: none"> Malicious Software: Viruses and Related threats, Virus counter measures, Firewalls: Firewall, Firewall Design Principles, Trusted Systems, Web Security: Web Security Considerations, Secure socket layers and Transport Layer Security. Secure Electronic Transaction E-mail Security: Pretty Good Privacy, S/MIME (Secure/Multipurpose Mail Extension) 									
Cyber crime, criminal justice, cyber squatters and copyright protection (10)									
<ul style="list-style-type: none"> Concept of Cyber crime and the IT act 2000, Hacking, Cyber Fraud and cheating, Virus on the internet, Defamation, Harassment and E-mail abuse, Cyber pornography, Other IT offence, Jurisdiction and cyber crime, Concept of Domain name and reply to cyber squatters, Meta tagging, Copyright infringement, remedies and offences, Computer software privacy 									

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

E-commerce Taxation & Digital Signature (10)
<ul style="list-style-type: none">• Introduction, Finding the PE in cross border E-commerce, The impact of the internet on customer duties, Taxation policies in India, Digital Signatures, Digital Signature certificate, Certifying authorities and liability in the event of digital signature compromise.

Reference Books:

1. Cryptography and Network Security Principle and Practice 3rd Edition by William Stallings Pearson Publications
2. Cyber law simplified – vivek sood (TMH)
3. Corporate Computer and Network Security by Raymond R Panko, Pearson Publications

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Pros & Cons in Electronic Security (9 marks)**)

Q-3 (Must be From topics: **System & Web Security (Stallings) (10 marks)**)

Q-4 (Must be From topics: **Cyber crime, criminal justice, cyber squatters and copyright protection (8 marks)**)

Q-5 (Must be From topics: **E-commerce Taxation & Digital Signature (8 marks)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY									
M.C.M. SEM-III									
P33A1WP2 - WEB PROGRAMMING –II									
Credit			Examination scheme (Marks)						
			INTERNAL		EXTERNAL		TOTAL		
Th.	Tu.	Pr.	Th.	Pr.	Th.	Pr.	Th.	Pr.	
2	1	2	30	20	70	30	100	50	

Total Sessions : 63 [43 Theory + 20 Practical]

- **Basics of Client – Server Architecture and .Net Framework (06)**
 - Discover Client-Server and Other Computing Architectures(1), Understand File Server versus Client-Server Database Deployment(1), Learn About Two Tiers versus Three-Tier Client-Server Model(1)
 - .Net Framework Architecture, Common Language Runtime (CLR), Microsoft Intermediate Language (MSIL), Just In Time Compiler (JIT)(1), Managed Code, Unmanaged Code, Common Type System (CTS)(1), Common Language Specification (CLS), .NET Framework Class Library, Namespace, Assemblies (1)
- **Introduction to C#.Net (12)**
 Reading Console, Input, Writing, Console Output (1), Conditional Statements, Looping Statements, Branching Statements(2), Class and Object, Methods, Access Modifiers, Boxing, Un-boxing(2), Constructor, Destructor, Garbage Collection(1), One Dimensional Array, Two Dimensional Array, Multi Dimensional Array, Jagged Array(2), String Handling(1), Inheritance, Polymorphism (Over Loading and Over Ridding), Abstract Classes, Interfaces, Exception Handling(3).
- **Understanding .Net Controls and Other Features(13)**
 .Net Common Controls: (3)
 Server Controls (2)
 User Controls and Validation Controls (2)
 Understanding Web.config file, State management – sessions, State management – cookies(3), Caching / view state, Master pages, Headers / Footer / Menus, Content placeholders and Forms (3)
- **Database Connectivity using ADO.Net and Use of Reports(12)**
 Architecture Of ADO.Net(1), Data Base Manipulation(2), .Net Data Provider, Data Adapter, Data Set, Data Row, Data Column, Data Relation, Command, Data Reader, Data Adapter(5), Data Grid View(1), Stored Procedure, Execute reader, Execute Non Query, Execute Scalar (3)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Reference Books:

- **The Complete Reference C# 3.0**, Herbert Schildt, Tata McGraw Hill Edition
- **C# 3.0 Unleashed with the .Net Framework 3.5**, Joe Mayo, Pearson Education
- **Beginning Microsoft Visual C# 2008**, Wrox, Wiley India Edition
- **.Net Programming**, Comdex, Vikash Gupta, Dreamtech Press
- **C# 2008 Programming Black Book**, Dreamtech Press
- **ASP.NET 2.0 Unleashed**, Stephen Walther, SAMs Publication

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Basics of Client – Server Architecture and .Net Framework (6 marks)**)

Q-3 (Must be From topics: **Introduction to C#.Net (9 marks)**)

Q-4 (Must be From topics: **Understanding .Net Controls and Other Features (10 marks)**)

Q-5 (Must be From topics: **Database Connectivity using ADO.Net and Use of Reports (10 marks)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY									
MCM SEM-III									
P33A2WFR : WEB PROGRAMMING FRAMEWORKS									
Credit			Examination scheme (Marks)						
			INTERNAL		EXTERNAL		TOTAL		
Th.	Tu.	Pr.	Th.	Pr.	Th.	Pr.	Th.	Pr.	
2	1	1	30	20	70	30	100	50	

Total Sessions: 45

Introduction (10)	References
<p>A Brief History of Joomla, Introduction to Joomla Content Management System, Joomla Framework, Installation of Joomla</p> <p>Domain Names: Registering Your Domain Name, Trademarks, Licensing, Copyright, and Legalities, Trademarks, Copyright, Licensing, Downloading Joomla, Creating a Database,</p> <p>Use of File Manager to Upload Joomla, Introduction to Joomla Web Installation, Basic Configuration Steps for Creating New Site, Editing the Administrator User, User Groups, Basic Global Configuration Options</p>	<p>Book 1, Chapter 1 , 2, 3</p>
<p>Working with Joomla Content (12)</p> <p>Managing Content: Understanding the Content Hierarchy, Creating Content Hierarchies, Working with Articles, Managing Existing Articles</p> <p>Working with Editors and Media: Using WYSIWYG Editors, Overview of the Media Manager, Working With Media Files</p> <p>Working with the Menu System: Introducing the Menu Manager, Creating and Managing Menus, Introducing the Menu Item Manager, Creating and Managing Menu Items</p> <p>Managing the Front Page of Your Site : Controlling Front Page Layout, Publishing Articles on the Front Page, Publishing Component Output on the Front Page, Publishing Modules on the Front Page</p>	<p>Book 2, Chapter 5,6,8, 9,10</p>
<p>Working with Users, Components, Modules, and Plug-in(s) (10)</p> <p>Working with the User Manager : Introducing the User Manager, Adding Users to the System, Managing Users, Creating User Registration, Controlling Access to Content and Functionalities</p> <p>Using the Banner Manager : Introducing the Banner Manager, Managing Clients, Managing Categories,</p>	<p>Book 2, Chapter 12</p>

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Managing Banners, Using the Banners Module	
Working with the Administrator Modules (13)	Book 2, Chapter 18, 20, 21
Reviewing the Module Manager : Creating new modules, Copying modules, Editing and deleting modules Reviewing the Administrator Modules : Admin Menu module Admin submenu, Custom HTML module, Feed Display module, Footer module, Item Stats module , Latest News module , Logged, In Users module, Login Form module, Online Users module , Popular Articles module, Quick Icons module, Title module , Toolbar module, Unread Messages module, User Status module Customizing Joomla! Templates: Introducing the Template Manager, Customizing Templates, Controlling the Appearance of Menus	

Reference Books:

1. The Official Joomla Book by Jennifer Marriott Elin Waring, Pearson Education
2. Joomla Bible, Published by Ric Shreves, Wiley Publishing, Inc.

Web References:

1. <http://www.joomla.org/>

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Introduction to Joomla (9 marks)**)

Q-3 (Must be From topics: **Working with Joomla Content (9 marks)**)

Q-4 (Must be From topics: **Working with Users, Components, Modules, and Plugins (9 marks)**)

Q-5 (Must be From topics: **Working with the Administrator Modules (8 marks)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY
MCM - SEM-III
P33B3SAP : STUDY OF ERP TOOLS

Credit			Examination Scheme (Marks)					
			INTERNAL		EXTERNAL		TOTAL	
Th.	Tu.	Pr.	Th.	Pr.	Th.	Pr.	Th.	Pr.
2	1	5	30	20	70	30	100	50

Total Session: 23 (Theory (8) + Practical (15))

Introduction to SAP Technologies (3)
SAP Systems, Technical Structure of an SAP Web Application Server, R/3 structure in ABAP (1) SAP Landscape, Introduction to Package & Local objects, Introduction to Requests (2)
ABAP Workbench Tools (3)
Opening the Workbench, Learning the Workbench Tools (1) Creating a Program, Creating a Selection Screen (1) ABAP Events, Creating a Transaction (1)
ABAP Syntax and Transactions (8)
• Transactions and Subroutines (4)
Data types and data objects (declaration), Data retrieval (2) Introduction to subroutines, Function group and Function modules (2)
• Understanding ABAP/4 Syntax (4)
Introducing the select Statement (1) Understanding Internal Tables/Work Areas, Introducing the where Clause (1) Working with System Variables, Using the select single Statement (1) Commenting Code and Formal Documentation (1)
Working with tables (4)
Creating a Table Object, Specifying Table Fields (1) Defining Data Elements and Domains (1) Reusing Domains, Specifying Technical Settings (1) Activating a Table (1)
Designing Screen (5)
Creating a Screen, Placing an Element on a Screen (1) Mapping Screen with WorkArea & InternalTables (1) (Theory Only) Introduction to Smartforms, BDC, RFC, BAPI, BADI, UserExits (3)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Reference Books:

1. Sams Teach Yourself ABAP/4 in 21 days by KEN GREENWOOD and JACOB J. BOLOTIN
2. The Official ABAP reference, 2nd Edition by Joachim Jacobitz and Horst Keller Published by SAP Press
3. SAP ABAP Handbook, 1st edition by Jones & Bartlett Publishers SAP Book Series,
4. SAP ABAP/4, covers SAP ECC 6.0, Black Book: 2009 ED by KOAGENT learning solutions Inc.
5. Introduction to ABAP/4 Programming for SAP, Revised and Expanded Edition, Prima Pub publisher.

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: **Introduction to SAP Technologies (05 marks)**)

Q-3 (Must be From topics: **ABAP Workbench Tools (06marks)**)

Q-4 (Must be From topics: **ABAP Syntax and Transactions (10 marks)**)

Q-5 (Must be From topics: **Working with tables (06marks)**)

Q-6 (Must be From topics: **Designing Screen (08 Marks)**)

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY									
MCM - SEM-III									
P33A4PMA : PROJECT MANAGEMENT & SOFTWARE ENGINEERING									
Credit		Examination scheme (Marks)							
		INTERNAL				EXTERNAL		TOTAL	
Th.	Tu			Th.	Pr.	Th.	Pr.	Th.	Pr.
3	1			30		70		100	

Total Lectures = 43

<p>Introduction to Project Management (08)</p> <p>Project, Project Management, Characteristics of Project, Project Management Life Cycle, Tools and software for Project Management, Difference between Product and Project. Project Stake holders, The Role of Project Management Office (PMO) and Software Project Manager, Modern Project Management Terminology.</p>
<p>Initiating Process of Software Project Management (05)</p> <p>Methods for Selecting Software Project, Develop a Project Charter, Identify the Project Stake holders, Collect project requirements and Tools and Techniques for project requirement.</p>
<p>Software Project Management Planning Process (13)</p> <p>Define Scope - Prepare Software Scope Statement, Define Project WBS, Work Packages and WBS Dictionary for Software, Define Activity and Sequence of Activity, Develop Software Project Schedule - Prepare Network Diagram, Critical Path and Critical chain Method, Identify Software Threats and Prepare Risk and Probability Impact Matrix, Quality Planning for Information Technology Project.</p>
<p>Executing and Controlling Process of Software Project Management (09)</p> <p>Perform Quality Assurance and Quality Control – Cost of Quality, Run chart, Statistical Sampling, Scatter Diagram, Control chart, Pareto Analysis, variance and Trend Analysis, Manage Stake holders Expectations, Control Project Schedule and Tools and Techniques of Control the Schedule.</p>
<p>Case Study Work (08)</p> <ol style="list-style-type: none"> 1. Prepare the case study and various approaches to define WBS and WBS Dictionary in Software Firm 2. Define a case study that identifies various classical and fundamental mistakes and problems during the time of Software project. 3. Define a case study and various charts that identify the role and responsibility in Software Project assigned by Project Manager. 4. Where and When Scope integrated change control process is generates or comes in picture during the time of project. Prepare a case study. 5. How the Three Dimensional - Cost, Time and Quality are interrelated in Software Project. 6. If you have been appointed as a Project Manager Software MNC company. How Will you Estimate, Determine Budge, manage and control the cost of Software

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

Project.

7. As a Project Manager, How will you Estimate Project Resources and Duration for Software Project. Define a case study.

Reference Books:

1. **Information Technology Project Management Fourth Edition, Kathy Schwalbe, course Technology, Self Learning.**
2. **Software Project Management, Fourth Edition, Bob Hughes, Mike Cotterel, TMH publication.**

Note for Examiner

Q-1 must be common from any topics from syllabus.

Q-2 and onwards must be from specific topics and internal choice or option can be given

Paper Structure

Q-1 (Attempt any **Seven** Out of **Ten**: each question must be 5 marks) --- **35**
Questions must be covered all possible section.

Q-2 (Must be From topics: Introduction to Project Management (**06 marks**))

Q-3 (Must be From topics: Initiating Process of Software project Management (**04marks**))

Q-4 (Must be From topics: Software Project Management Planning Process (**10 marks**))

Q-5 (Must be From topics: Executing and Controlling Process of Software Project Management (**08marks**))

Q-6 (Must be From topics: Case Study Work (**07 Marks**))

Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY
MCM - SEM-IV P33A5PRJ: PROJECT DISSERTATION

Credit	Examination Scheme (Marks)		
	INTERNAL	EXTERNAL	TOTAL
Th+Pr			
3	30	70	100

Objectives of the Course

To provide the awareness of project work and prepare them for the final Industrial Project.

Rules for the Project:

- (1) The duration of the project work is approximately 50 Hrs excluding the study and reporting work. The students can do their project work individually or in a group, but the work must be sufficient in order to justify the duration and role.
- (2) The passing standard will be as per GNU policy.
- (3) The project can be done by seeking prior approval from the institution. Generally the purpose of approval includes to submit their project titles and proposals to the Project Coordinator of Institution within 15 days of the commencement of the third semester. In case, if the student proposal is rejected, the revised proposal in the same or other area, is required to submit and get it sanctioned within next 5 working days. Failing to do this, His/her course will not be granted.
- (4) The students have to report as per schedule declared during the project life span with the progress report but in any of case the minimum 3 reporting is must. Moreover they have to bring these reports with the final report at the time of final report at the time of external examination.
- (5) The external examiners appointed by the University will give the external marks on the basis of the heads like Presentation, Demonstration, Viva Voice, Documentation etc. The distribution of the marks to different heads may be decided at the time of evaluation of the project but it is expected to have the same distribution.
- (6) The Project Coordinator will be responsible to award the internal marks based on performance and keeping records for the same.

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Regulations:

M.C.M. (Master in Computer Management) Curriculum Details effective from JUNE-2010 (M.C.M) -I & II)

GANPAT UNIVERSITY
MCM - SEM-IV P34A1PRJ: INDUSTRIAL PROJECT

Credit	Examination Scheme (Marks)		
	INTERNAL	EXTERNAL	TOTAL
Pr.	300	450	750
24			

Objectives of the Course

To provide the students with experience in study, analyzing, designing, Configuring & implementation, and evaluating the information systems

Rules for the Project:

- (1) The duration of the project will be minimum of 120 days. The students can do their project work individually or in a group, but the work must be sufficient in order to justify the duration and role.
- (2) The passing standard will be as per GNU policy.
- (3) The project can be done by seeking prior approval from the institution. Generally the purpose of approval includes to submit their project titles and proposals with the name of internal and external guides to the Project Coordinator of Institution within 15 days of the commencement of the forth semester. In case, if the student proposal is rejected, the revised proposal in the same or other area, is required to submit and get it sanctioned within next 10 days. Failing to do this, His/her term will not be granted.
- (4) The students have to report to the internal guide as per schedule declared during the project life span with the progress report duly signed by external guide but in case the minimum 3 reporting is must. The reporting can be online but it need prior approval with genuine grounds. Moreover they have to bring these reports with the final report at the time of final report at the time of external examination.
- (5) The external examiners appointed by the University will give the external marks on the basis of the heads like Presentation, Demonstration, Viva Voice, Documentation etc. The distribution of the marks to different heads may be decided at the time of evaluation of the project but it is expected to have the same distribution.
- (6) The Internal Guide/Project Coordinator of Institution will give the internal marks. These marks may be given on the bases of regular reporting of the student to the internal guide and a report obtained from the external guide.

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