S.G.M. English Medium College of Commerce and Management

Course Plan (2013 - 2014)

TYBCA (Semester - VI)

Business Information Systems

FACULTY NAME: Palak Patel

Course Objectives
1. To make students aware of the information system and information technology.
2. To teach the concepts and roles of Business Information Systems and Decision Support Systems in organizations to students.
3. To make students aware of the advance information systems.

Unit No.	Topics	No. of Lectures Required
1	**Introduction to information systems & Information Technology**	-
	Introduction to Information Systems	1
	Information as a Corporate scenario	1
	Managerial effectiveness and Information	1
	Information Needs and Managerial Levels	1
	Process of generation of Information	2
	Introduction and Meaning of Information Technology	2
	Role of IT in Business, IT Infrastructure & Resources	2
	Issus involved in IT Implementation	2
	Advantages & Disadvantages of IT in Business	3
	TOTAL NO. OF LECTURES / UNIT	**15**
2	**Business Information Systems**	
	Introduction	1
	The evolution and types of Information Systems, Users of Business Information Systems, Components of a Business Information systems	2
	IT Support at different Organizational Levels, Managing Information Technology In Organizations	2
	Basic Business Functions	1
	Marketing Function and Information Needs, Finance Function and Information Needs, Production Function and Information Needs, Human resource Function and Information Needs	6
	TOTAL NO. OF LECTURES / UNIT	**12**

	Decision Support System	
3	DSS: Introduction, Objectives, Advantages and Disadvantages	1
	Enterprise Decision Support, Group DSS	2
	Information Management as a Business Function	2
	Integration of Business functions	2
	TOTAL NO. OF LECTURES / UNIT	**07**
	Advance Information Systems	
4	Business Portals: Introduction, Architecture, Advantages and Disadvantages	2
	Data Visualization Technologies	1
	Knowledge Management & Organizational knowledge Bases, Knowledge Discovery & Analysis	2
	Global Positioning System (GPS) & Geographical Information System (GIS)	1
	TOTAL NO. OF LECTURES / UNIT	**06**

Total Credits   :   4

Total No. of Lectures   :   40

Total No. of Theory(s)   :   4 / week

Total No. of Practical(s)   :   -

Total Weightage/Unit   :   25% / Unit   [25% * 4 Units= 100%]

List of Reference Books   :   1.   James A. O'Brien (Tenth Edition) Tata McGraw Hill Publication
                                        2.   Muneesh Kumar : Business Information Systems, Vikas Publishing House Pvt. Ltd., New Delhi
                                        3.   Turban, Rainer, Potter, Introduction to Information Technology John Wiley & Sons Inc., 2000

Course Outcomes
1. Students are aware of the information system and information technology.
2. Students are able to describe the concepts and roles of Business Information Systems and Decision Support Systems in organizations to students.
3. Students are aware of the advance information systems.

S.G.M. English Medium College of Commerce and Management

Course Plan (2013 – 2014)

SYBBA - ITM (Semester - IV)

Fundamentals of Enterprise Resource Planning

FACULTY NAME: Palak Patel

Course Objectives:

1. To introduce the basic concepts of ERP to students.
2. To make students able to understand the ERP related technologies and its modules.
3. To introduce the ERP implementation Life Cycle and future directions of it.

Unit No.	Topics	No. of Lectures Required
1	**Introduction to ERP and Enterprise Overview**	**-**
	Introduction – Evolution of ERP	1
	Reasons for the growth of ERP Market	
	Advantages of ERP	
	Enterprise: Introduction, Business Modeling, Integrated Data Model, Integrated Management Information	3
	Basic concepts of ERP	3
	Risks and benefits of ERP	
	TOTAL NO. OF LECTURES / UNIT	**07**
2	**ERP and Related Technologies**	**-**
	Introduction to MRP, MRP-II, Closed Loop MRP and ERP	3
	Business Process Reengineering (BPR)	2
	Data warehousing, Data Mining	2
	Online Analytical Processing (OLAP), Supply Chain Management (SCM)	2
	TOTAL NO. OF LECTURES / UNIT	**09**
3	**ERP MODULES**	**-**
	Plant Maintenance	3
	Quality Management	
	Materials Management	3
	TOTAL NO. OF LECTURES / UNIT	**06**
4	**ERP IMPLEMENTATION and Future Directions in ERP**	**-**

	Pre-evaluation Screening, Package Evaluation, Project Planning Phase, Gap Analysis, Reengineering, Configuration, Implementation Team Training, Testing, Going Live, End-User Training, Post Implementation	03
	Future Directions - New Markets, New Channels, Faster Implementation Methodologies, Business Models and BAPIs, Convergence on Windows NT, Application Platforms, New Business Segments, More Features…, Web Enabling, Market Snapshot	03
	TOTAL NO. OF LECTURES / UNIT	**06**

Total Credits   :   3

Total No. of Lectures   :   28

Total No. of Theory   :   3 / week

(s)

Total No. of Practical   :   -

(s)

Total Weightage/Unit   :   25% / Unit   [25% * 4 Units= 100%]

List of   Reference   :   1.   Alexis Leon: Enterprise Resource Planning, Tata McGraw-

Books   HillInternet based resource.

Course Objectives:

1. Students are aware of the basic concepts of ERP.
2. Students can correlate to the ERP related technologies and its modules.
3. Students are able to test the ERP implementation Life Cycle and able to describe the future directions of ERP.

S.G.M. English Medium College of Commerce and Management

Course Plan (2013 - 2014)

TYBCA (Semester - VI)

Information Security

FACULTY NAME: Palak Patel

Course Objectives:
1. To make students aware of the Information Security Attacks, Services and model of network security.
2. To make students aware of the cryptography.
3. To make students aware of the information security mechanisms in contexts of system and network security.

Unit No.	Topics	No. of Lectures Required
1	**Introduction**	-
	Attacks, services and mechanism	1
	Security attacks	1
	A model for network security	1
	TOTAL NO. OF LECTURES / UNIT	**03**
2	**Cryptography**	
	Introduction	1
	Conventional encryption principles	2
	Basic terms : plaintext, ciphertext, cryptography, cryptanalysis	2
	Substitution ciphers vs. transposition ciphers	1
	Types of attack on encrypted messages	1
	Introduction to public key cryptography	1
	Applications for public-key cryptosystems	1
	TOTAL NO. OF LECTURES / UNIT	**09**
3	**System Security**	
	Intruders	
	Viruses and related threats : trap doors, logic bombs, trojan horses, viruses, worms, bacteria	1
	The nature of viruses	

	Types of viruses	1
	Antivirus approaches : detection, identification and removal	1
	TOTAL NO. OF LECTURES / UNIT	**03**
4	**Network Security**	
	Digital signatures	1
	Firewalls : introduction, design principles, characteristics, types, configuration	4
	TOTAL NO. OF LECTURES / UNIT	**05**

Total Credits   :   4

Total No. of Lectures   :   20

Total No. of Theory(s)   :   2 / week

Total No. of Practical(s) :   -

Total Weightage/Unit   :   25% / Unit   [25% * 4 Units= 100%]

List of Reference Books   :   1.   William Stallings: Network Security Essentials (Applications and Standards), Pearson Education India, 2001.
                               2.   Tanenbaum A. S., Computer Networks, Prentice-Hall of India Pvt. Ltd., New Delhi, 1997.

Course Outcomes:
1. Students are aware of the Information Security Attacks, Services and model of network security.
2. Students are aware of the cryptography.
3. Students are aware of the information security mechanisms in contexts of system and network security.

S.G.M. English Medium College of Commerce and Management

Course Plan (2013 - 2014)

FYBBA - ITM (Semester - II)

Programming Languages

FACULTY NAME: Palak Patel

<u>**Course Objectives:**</u>

4. To build logical skills amongst the students.
5. To enable the students to create programs to solve different problems in programming 'C'.
6. To enable students for solving different problems using advanced concepts of programming 'C'.

Unit No.	Topics	No. of Lectures Required
1	**Computer Languages, Flowcharts & Algorithms**	-
	Introduction to Computer Languages with Examples	2
	Types of Computer Languages	
	What are translators? Interpreters, Compilers & Assembler	
	Turbo C Editor Details	
	Algorithm, Flowchart, Definition, Introduction, advantages, disadvantages, Symbols used in Flowcharting	1
	Algorithm & Flowchart examples based on: Simple problems (operations), Decision making concepts, Looping Concepts.	5
	TOTAL NO. OF LECTURES / UNIT	*08*
2	**Programming Basics**	-
	General structure of C program	3
	Character Sets, variables Keywords and constants, symbolic constants	
	Basic data types like INT, CHAR, FLOAT, DOUBLE	
	Basic operators: arithmetic, Relational and Logical, Assignment, Shorthand Assignment, Conditional, Increment, Decrement	3
	I / O functions using scanf(), getchar(), getch(), printf(), putchar(), clrscr()	4
	Precedence & Associatively of operators	1
	Problems based on above topics	8

	TOTAL NO. OF LECTURES / UNIT	*19*
3	**Decision Making and Looping Concepts**	-
	Decision Making statements: simple IF statement, IF-ELSE statement, Nested IF statement, IF-ELSE ladder, SWITCH statement, Conditional operator	4
	Looping structures: FOR statement, WHILE statement	4
	Problems based on above	10
	TOTAL NO. OF LECTURES / UNIT	*18*
4	**Advanced Programming Concepts**	-
	What are Arrays? Creating, initializing and working with 1-D arrays,	6
	String functions	2
	User-defined functions	2
	TOTAL NO. OF LECTURES / UNIT	**10**

Total Credits   :   3

Total No. of Lectures   :   55

Total No. of Theory (s)   :   -

Total No. of Practical (s)   :   6 / week

Total Weightage/Unit   :   25% / Unit   [25% * 4 Units= 100%]

List of Reference Books   :   1.   R K Taxali – PC Software

                                          2.   Peter Norton – Introduction to Computers

                                          3.   E Balaguruswami : Programming in ANSI C

                                          4.   YashwantKanetker - Let Us C

Course Objectives:

1. Students are trained to think logically to solve different problems.
2. Students are able to create programs to solve different problems in programming 'C'.
3. Students are able to solve different problems using advanced concepts of programming 'C'.