

S.G.M. ENGLISH MEDIUM COLLEGE OF COMMERCE AND MANAGEMENT

Even Semester Course Plan (2014-2015)

Submitted By: Ms. Palak Patel

| Subject | | Class |
|---|----------|--------------------------------------|
| Programming Languages | : | FYBBA-ITM (Semester - II) |
| Fundamentals of Enterprise Resource Planning | : | SYBBA-ITM (Semester - IV) |
| Business Information System | : | TYBCA (Semester - VI) |
| Information Security | : | TYBCA (Semester - VI) |

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Course Plan (2014 - 2015)

FYBBA - ITM (Semester - II)

Programming Languages

FACULTY NAME: Palak Patel

| Unit No. | Topics | No. of Lectures Required |
|-----------------|---|---------------------------------|
| 1 | Computer Languages, Flowcharts & Algorithms | - |
| | Introduction to Computer Languages with Examples | 6 |
| | Types of Computer Languages | |
| | What are translators? Interpreters, Compilers & Assembler | |
| | Turbo C Editor Details | |
| | Algorithm, Flowchart, Definition, Introduction, advantages, disadvantages, Symbols used in Flowcharting | 3 |
| | Algorithm & Flowchart examples based on: Simple problems (operations), Decision making concepts, Looping Concepts. | 20 |
| | TOTAL NO. OF LECTURES / UNIT | 29 |
| 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 & Associativity of operators | 1 |
| | Problems based on above topics | 12 |
| | TOTAL NO. OF LECTURES / UNIT | 23 |
| 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 | 15 |
| | TOTAL NO. OF LECTURES / UNIT | 23 |
| 4 | Advanced Programming Concepts | - |

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|--|--|-----------|
| | What are Arrays? Creating, initializing and working with 1-D arrays, | 10 |
| | String functions | 2 |
| | User-defined functions | 3 |
| | TOTAL NO. OF LECTURES / UNIT | 15 |

Total Credits : 3

Total No. of Lectures : 90

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. Yashwant Kanetker - Let Us C

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SYBBA - ITM (Semester - IV)

Fundamentals of Enterprise Resource Planning

FACULTY NAME: Palak Patel

| Unit No. | Topics | No. of Lectures Required |
|---------------------------|---|---------------------------------|
| 1 | Introduction to ERP and Enterprise Overview | - |
| | Introduction – Evolution of ERP | 2 |
| | Reasons for the growth of ERP Market | |
| | Advantages of ERP | 3 |
| | Enterprise: Introduction, Business Modeling, Integrated Data Model, Integrated Management Information | |
| | Basic concepts of ERP | |
| Risks and benefits of ERP | 7 | |
| | TOTAL NO. OF LECTURES / UNIT | 12 |
| 2 | ERP and Related Technologies | - |
| | Introduction to MRP, MRP-II, Closed Loop MRP and ERP | 5 |
| | Business Process Reengineering (BPR) | 2 |
| | Data warehousing, Data Mining | 2 |
| | Online Analytical Processing (OLAP), Supply Chain Management (SCM) | 2 |
| | TOTAL NO. OF LECTURES / UNIT | 11 |
| 3 | ERP MODULES | - |
| | Plant Maintenance | 5 |
| | Quality Management | |
| | Materials Management | 6 |
| | TOTAL NO. OF LECTURES / UNIT | 11 |
| 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 | 05 |
| | 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 | 06 |
| | TOTAL NO. OF LECTURES / UNIT | 11 |

Total Credits : 3

Total No. of Lectures : 45

Total No. of Theory (s) : 3 / week

Total No. of Practical (s) : -

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

List of Reference Books : 1. Alexis Leon: Enterprise Resource Planning, Tata McGraw-Hill
2. Internet based resource.

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TYBCA (Semester - VI)

Business Information Systems

FACULTY NAME: Palak Patel

| Unit No. | Topics | No. of Lectures Required |
|-------------------------------------|--|---------------------------------|
| 1 | Introduction to information systems & Information Technology | - |
| | Introduction to Information Systems | 3 |
| | 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 | 4 |
| | Issues involved in IT Implementation | 2 |
| | Advantages & Disadvantages of IT in Business | 3 |
| | TOTAL NO. OF LECTURES / UNIT | 18 |
| 2 | Business Information Systems | |
| | Introduction | 1 |
| | The evolution and types of Information Systems, Users of Business Information Systems, Components of a Business Information systems | 3 |
| | IT Support at different Organizational Levels, Managing Information Technology In Organizations | 4 |
| | 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 | 8 |
| TOTAL NO. OF LECTURES / UNIT | 17 | |
| 3 | Decision Support System | |
| | DSS: Introduction, Objectives, Advantages and Disadvantages | 2 |
| | Enterprise Decision Support, Group DSS | 3 |
| | Information Management as a Business Function | 5 |
| | Integration of Business functions | 2 |
| TOTAL NO. OF LECTURES / UNIT | 12 | |
| 4 | Advance Information Systems | |
| | Business Portals: Introduction, Architecture, Advantages and Disadvantages | 3 |
| | Data Visualization Technologies | 3 |

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| | Knowledge Management & Organizational knowledge Bases, Knowledge Discovery & Analysis | 4 |
| | Global Positioning System (GPS) & Geographical Information System (GIS) | 3 |
| | TOTAL NO. OF LECTURES / UNIT | 13 |

Total Credits : 4

Total No. of Lectures : 60

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

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TYBCA (Semester - VI)

Information Security

FACULTY NAME: Palak Patel

| Unit No. | Topics | No. of Lectures Required |
|-----------------|--|---------------------------------|
| 1 | Introduction | - |
| | Attacks, services and mechanism | 3 |
| | Security attacks | 2 |
| | A model for network security | 3 |
| | TOTAL NO. OF LECTURES / UNIT | 08 |
| 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 | 3 |
| | Viruses and related threats : trap doors, logic bombs, trojan horses, viruses, worms, bacteria | |
| | The nature of viruses | |
| | Types of viruses | 1 |
| | Antivirus approaches : detection, identification and removal | 1 |
| | TOTAL NO. OF LECTURES / UNIT | 05 |
| 4 | Network Security | |
| | Digital signatures | 4 |
| | Firewalls : introduction, design principles, characteristics, types, configuration | 4 |
| | TOTAL NO. OF LECTURES / UNIT | 08 |

Total Credits : 2

Total No. of Lectures : 30

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.