SILVER OAK COLLEGE OF ENGINEERING AND TECHNOLOGY

INFORMATION TECHNOLOGY DEPARTMENT

SYLLABUS FOR MID-SEM EXAM [OCT 2012]

3rd Sem.	5th Sem.	7th Sem.
Subject	Subject	Subject
1)DBMS (130703) Unit – 1 : Introduction Unit – 2 : RELATIONAL MODEL Unit – 3 : ENTITY-RELATIONSHIP MODEL Unit – 6 : TRANSACTION MANAGEMENT :- Transaction concepts, properties of transactions, serializability of transactions, testing for serializability, concurrent executions of transactions and related problems, Locking mechanism, solution to concurrency related problems, two-phase locking protocol, Intent locking	1) Computer Network (150702) Unit -1 : Introduction Unit-2 : The Physical layer Unit-3 : The Data Link Layer (up to Sliding Window Protocol) Unit-4 : The Medium Access Control Sub layer Unit-5 : The Network Layer (up to Routing in ad-hoc network) Unit-7 : The Application layer	1) Distributed Database Application & System (171602) Unit-1 : Introduction Unit-2: Overview of Relational DBMS. Unit-3 : Review of Computer Networks Unit-4: Distributed DBMS Architecture. Unit-5 : Distributed Database Design(up to Types of fragmentation(5.3)) Unit-6: Semantic Data Control. Unit-7 : Overview of Query Processing (up to Optimization of Distributed Queries(9.1))
2)DFS (130702) Unit 1: INTRODUCTION TO DATA STRUCTURE Unit 2: LINEAR DATA STRUCTURE • Array • Stack • Queue • Linked List	2)E-Commerce & E-Business(151602) Unit-1:Introduction to E-Commerce & Technology Infrastructure Unit-2:E-Commerce to E-Business and Spotting Business Trends Unit-3:Architecture Unit-4:Digitizing the Business and Thinking E-Business Design Unit-5:Building the E-Business Backbone Unit-6:Business Process Model Unit-7:Environment of E-Commerce: Legal, Ethical and Tax Issues Unit-8:Selling on the Web, Revenue Models and Building a Web Presence Unit-10:Business to Business Strategy from Electronic Data Interchange to E-Commerce	2) Advance Java Technology (170703) Unit – 1 Unit – 2 Unit – 3 Unit – 4 Unit – 5

3)Business Information System [131601]	3) Management-2 (150001)	3)Wireless Communication and Mobile Programming(170702N)
Unit 1:Business and Management Information Unit 2: Computer in Business Unit 3: Data Capture Unit 4: Computer Files and Databases Unit 5: Systems Investigation Unit 11: Inventory Management (INMANS) System Design Unit 12: Account Payable System (ACPAYS) Design Unit 13: Payroll System (PAYSY) Design	Unit-1 :Introduction to Marketing Management Unit-2:Introduction to Human Resource Management Unit-3 :Introduction to Production Management (skip break-even analysis)	Unit-1 : Mobile Computing Introduction Unit-2 : Mobile Technologies(up to mobile IP registration and GSM SMS whole) Unit-3 : General packet radio service(GPRS) Unit-4 : Wireless Application Protocol(WAP) WAP,MMS,GPRS application CDMA and 3G(up to Wireless LAN architecture,)
4)Basic Electronics [131101]	4) Computer Statistical Methods (151601)	4) Data Warehousing and Data Mining(171601)
Unit 1: Energy Bands in Solids Unit 2: Transport Phenomena in Semiconductors Unit 3: Junction –Diode Characteristics Unit 4: Diode Circuits	Unit 1. Computer Arithmetic Unit 2. Iterative Methods(up to Secant Method) Unit 3. Interpolation and Approximation Unit 4. Numerical Differentiation And Integration: Unit 5. Solution Of Simultaneous Linear Equation And Ordinary Differential Equations Unit 6. Statistical Methods(Up to Correlation)	Unit 1: Introduction to Data Warehousing Unit 2: Introduction to Data Mining Unit 3: Data Preprocessing and Data Mining Primitives Unit 5: Classification and Clustering (Up to Decision tree) Unit 6: Clustering, Web Mining
5)DIGITAL LOGIC DESIGN [130701]	5) Object Oriented Programming with Java(150704)	5) Enterprise Resource Planning (171605)
Unit 1: Binary System Unit 2: Boolean Algebra and Logic Gates Unit 3: Simplification of Boolean Functions Unit 4: Combinational Logic (Up tosubtractor) Unit 5: Combinational Logic With MSI AND LSI (Up to Multiplexer)	Unit 1. Introduction to Java Unit 2. Objects and Classes : Unit 3. Inheritance and Polymorphism (except UTIL package) Unit 4. Event and GUI programming (Event handling in Java, Event types, Mouse and key events, Applet & its life cycle) Unit 6. Exception handling with try-catch-finally(Practical only)	Unit 1: Introduction to ERP Unit 2: ERP and Related Technologies Unit 5: Benefits of ERP Unit 4: Finance, HR, Plant Maintainance, SD
6)ADVANCED ENGINEERING MATHEMATICS [130002]	6)Applied Electronics (151006)	6)Contributor Personality Development(1990001)
Unit 3. Ordinary Differential Equations and Applications: Unit 5. Laplace Transforms and Applications:	Unit 1. Power Supplies. Unit 2. Operational Amplifiers. Unit 3. 555 Timer Circuits. Unit 4. Transducers. Unit 5. Optoelectronic Devices. Unit 9. Digital Systems, Memories, Microprocessors and Microcontroller.	Chapter 1 – Who is Contributor? Chapter 2 – The Contributor's identity. Chapter 3 – The Contributor's vision of success. Chapter 4 – The Contributor's vision of career. Chapter13 –Resume Building, Group Discussions.

-Satvik Khara

(H.O.D (I.T.) &

GTU EXAM COORDINATOR)