



SCHEME OF STUDIES & EXAMINATIONS B Tech (CSE)
Department: Computer Science & Engineering – 7th Semester

| Sr. No | Course No. | Course Title | Teaching Schedule | | | Marks of class work | Examination Marks | | Total | Credit | Duration of Exam |
|--------------|------------|--|-------------------|----------|-----------|---------------------|-------------------|-----------|------------|-----------|------------------|
| | | | L | T | P | | Theory | practical | | | |
| 1 | CSE 401B | MOBILE APPLICATIONS DEVELOPMENT (Common with IT) | 3 | 1 | - | 25 | 75 | - | 100 | 4 | 3 |
| 2 | CSE 403 B | CLOUD COMPUTING | 3 | 1 | - | 25 | 75 | - | 100 | 4 | 3 |
| 3 | | OPEN ELECTIVE | 4 | | - | 25 | 75 | - | 100 | 4 | 3 |
| 4 | | ELECTIVE – I | 4 | | - | 25 | 75 | - | 100 | 4 | 3 |
| 5 | | ELECTIVE –II | 4 | | - | 25 | 75 | - | 100 | 4 | 3 |
| 6 | CSE 421 B | MOBILE APPLICATIONS DEVELOPMENT LAB (common with IT) | | | 2 | 20 | | 30 | 50 | 1 | 3 |
| 7 | CSE 423B | CLOUD COMPUTING LAB | | | 2 | 20 | | 30 | 50 | 1 | 3 |
| 8 | CSE 425B | PROJECT | | | 4 | 100 | | | 100 | 4 | |
| 9 | CSE 427B | PROFESSIONAL TRAINING -II | | | 2 | 50 | | | 50 | 2 | |
| Total | | | 18 | 2 | 10 | 315 | 375 | 60 | 750 | 28 | |

*** List of Open Electives**

| | | | | | |
|---|----------|-------------------------------|----|----------|-------------------------------|
| 1 | MEI 623B | ENTREPRENEURSHIP | 6 | BT401B | BIO-INFORMATICS |
| 2 | BME451B | MEDICAL INSTRUMENTATION | 7 | AE417B | MODERN VEHICLE TECHNOLOGY |
| 3 | ECE305B | CONSUMER ELECTRONICS | 8 | CE451B | POLLUTION & CONTROL |
| 4 | EE451B | ENERGY AUDIT | 9 | CSE-411B | MANAGEMENT INFORMATION SYSTEM |
| 5 | EEE457B | ENERGY RESOURCES & TECHNOLOGY | 10 | IT-413B | CYBER SECURITY |

| ELECTIVES – I | | ELECTIVES - II | |
|---------------|--------------------------------|----------------|------------------------------------|
| IT 304 B | SOFTWARE TESTING | CSE 457 B | NETWORK SECURITY & CRYPTOGRAPHY |
| IT 405 B | ADVANCED COMPUTER NETWORKS | CSE 459 B | MULTIMEDIA TECHNOLOGY |
| CSE 451 B | DATA WAREHOUSING & DATA MINING | CSE 461 B | DISTRIBUTED OPERATING SYSTEMS |
| CSE 453 B | DISTRIBUTED COMPUTING | CSE 463 B | SOFTWARE AGENTS |
| CSE 455 B | ADVANCED COMPUTER ARCHITECTURE | CSE 465 B | INFORMATION SECURITY & DATA HIDING |

Note:

- Every student has to participate in the sports activities. Minimum one hour is fixed for sports activities either in the morning or evening. Weight-age of Moral Values & Ethics and Sports are given in General Proficiency Syllabus.
- Students will be permitted to opt for any one elective run by the other department (i.e. open electives) and for any two electives, one from Elective-I and one from Elective-II run by the department. However, the department shall offer those elective for which they have expertise. The choice of the students for any elective shall not be binding for the department to offer, if the department does not have expertise. The minimum strength of the students should be 20 to run an elective course.
- Assessment of Professional Training-II, undergone at the end of VI semester, will be based on seminar, viva-voce, report and certificate of Professional Training obtained by the student from the industry, institute, research lab, training center etc
- The students will be allowed to use non-programmable scientific calculator. However, sharing/exchange of calculator is prohibited in the examination.



SYLLABUS: B Tech (CSE)

Department: Computer Science & Engineering – 7th Semester

Subject: MOBILE APPLICATIONS DEVELOPMENT (Theory)

Subject Code: CSE 401B

Detailed Content

Unit No.1 Introduction to Mobile Application Development

- Topic No.1 : Definition of mobile computing
- Topic No.2 : various types of mobile computing devices, mobile computers, smart phones, dedicated devices
- Topic No.3 : Web based applications, Native applications, Compare
- Topic No.4 : contrast web-based mobile applications against native applications
- Topic No.5 : history of mobile platforms (PDA's, Notebooks, smart phones. Internet protocols for mobile Applications .i.e. WAP),
- Topic No.6 : evolution of browsers, Internet languages such as HTML
- Topic No.7 : JavaScript.

Unit No.2 Infrastructure

- Topic No.8 : Describe mobile and cell phone technologies CDMA, GSM, 3G, 4G, Compare and contrast 3G and 4G
- Topic No.9 : IP address, subnet mask, static vs Dynamic IP, gateway, DNS,transport including HTTP
- Topic No.10: routing
- Topic No.11: secure connections
- Topic No.12: proxies and reverse proxies
- Topic No.13: Need for storage, local Storage, local Storage

Unit No.3 HTML/CSS/DOM and Scripting

- Topic No.14: Basic HTML, validation, rendering
- Topic No.15: Cascading Style Sheets (CSS)
- Topic No.16: document object model (DOM): document, objects, model, DOM tree
- Topic No.17: DOM's utilization in web design
- Topic No.18: basic JavaScript code, constructs of the JavaScript language

Unit No.4 Designing mobile user interfaces and Mobile Platforms

- Topic No.20: Design mobile interfaces, usability, ways to test user interfaces, types of user interfaces for mobile apps
- Topic No.21: Interactive voice response (IVR), SMS/MMS
- Topic No.22: Mobile web, Tracking Progress, Native applications, Hybrids
- Topic No.23: mobile application development design considerations,Text entry, screen size, user interface and user context
- Topic No.24: Mobile Platforms, URIs for mobile apps
- Topic No.25: Compare and contrast native mobile platforms such as tightly controlled (iPhone), open (Android), and licensed (Windows Mobile),
- Topic No.26: web as a mobile application platform.

| Study Scheme | | | | Evaluation Scheme | | | Total Marks |
|-------------------|---|---|---------|---------------------|-----------------------------------|---------------|-------------|
| Lectures per week | | | | Internal Assessment | External Assessment (Examination) | | |
| L | T | P | Credits | Max. Marks | Max. Marks | Exam Duration | |
| 3 | 1 | | 4 | 25 | 75 | 3 hours | 100 |

TEXT BOOKS:

1. Lauren Darcey and Shane Conder, "Android Wireless Application Development", Pearson Education, 2nd ed. (2011)

REFERENCE BOOKS:

1. Reto Meier, "Professional Android 2 Application Development", Wiley India Pvt Ltd (2011)
2. Mark L Murphy, "Beginning Android", Wiley India Pvt Ltd(2009)
3. Sayed Y Hashimi and Satya Komatineni, "Pro Android", Wiley India Pvt Ltd(2009)
4. Brian Fling, "Mobile Design and Development: Practical concepts and techniques for creating mobile sites and web



SYLLABUS: B Tech (CSE)

Department: Computer Science & Engineering – 7th Semester

Subject: Cloud Computing (Theory)

Subject Code: CSE 403B

Detailed Content

Unit No.1 Introduction to Cloud computing

- Topic No.1 : Cloud computing history, Architecture and essential characteristics
- Topic No.2 : Cloud service models
- Topic No.3 : Cloud Deployment models
- Topic No.4 : Advantages of cloud computing, Cloud v/s Grid computing.

Unit No.2 Virtualization

- Topic No.5 : Virtualization techniques, Benefits and drawbacks of virtualization
- Topic No.6 : VM migration with its types
- Topic No.7 : Hypervisors and its types of hypervisors
- Topic No.8 : Distributed management of virtual infrastructures
- Topic No.9 : Scheduling techniques for advance reservation of Capacity
- Topic No.10: Service-oriented architectures, SOA implementation
- Topic No.11: SOAP, REST, SOAP v/s REST, Web 2.0.

Unit No.3 PaaS

- Topic No.12: Introduction: advantages and disadvantages of PaaS
- Topic No.13: Introduction to Google app engine, GAE cost structure
- Topic No.14: Apache hadoop, : Map Reduce, HDFS, Hive
- Topic No.15: Map reduce programming model, Hadoop as a service

Unit No.4 Migrating into the cloud

- Topic No.16: Introduction: challenges in the cloud, legal issues in cloud computing
- Topic No.17: Cloud Economics
- Topic No.18: Capacity Management, Restricted Choices, Capacity Planning
- Topic No.19: Queuing and Response Time
- Topic No.20: Evidence Based Decision Making
- Topic No.21: Instrumentation, Measuring Resource Consumption, Key Volume Indicator

| Study Scheme | | | | Evaluation Scheme | | | Total Marks |
|-------------------|---|---|---------|---------------------|-----------------------------------|---------------|-------------|
| Lectures per week | | | | Internal Assessment | External Assessment (Examination) | | |
| L | T | P | Credits | Max. Marks | Max. Marks | Exam Duration | |
| 3 | 1 | | 4 | 25 | 75 | 3 hours | 100 |

TEXT BOOKS:

1. Cloud Computing Principles and Paradigms, Rajkumar Buyya, Wiley & Sons pub.

REFERENCE BOOKS:

2. Cloud Computing Web-Based dynamic IT services: Christian Baun, Springer.
3. Implementing and Developing Cloud Computing Applications: David E.Y Sarna, CRC Press.

Note:

In the semester examination, the examiner will set two questions from each unit (total 08 questions in all), covering the entire syllabus. The students will be required to attempt only 5 questions selecting at least one question from each unit.



SYLLABUS: B Tech (CSE)

Department: Computer Science & Engineering – 7th Semester

Subject: MANAGEMENT INFORMATION SYSTEM (Theory)

Subject Code: CSE 411B

Detailed Content

Unit No.1 INFORMATION SYSTEM FOUNDATIONS and I.T.INFRASTRUCTURE

- Topic No.1 : Introduction to Information System and MIS
- Topic No.2 : Decision support, Decision making systems
- Topic No.3 : Systems approach, the systems view of business
- Topic No.4 : Managing the digital firm
- Topic No.5 : Electronic Commerce, Electronic business
- Topic No.6 : DBMS, RDBMS
- Topic No.7 : Introduction to Telecommunication and Networks
- Topic No.8 : Managing Hardware Assets, Managing Software Assets, Managing Data Resources
- Topic No.9 : Internet and New IT Infrastructure

Unit No.2 CONCEPTUAL SYSTEM DESIGN

- Topic No.10: Define the problems, set systems objective and establish system constraints, Determine information needs
- Topic No.11: Develop alternative conceptual design and elect one document the system concept
- Topic No.12: Prepare the conceptual design report
- Topic No.13: Information Systems Security and Control, Ethical and Social Impact of Information Systems.

Unit No.3 DETAILED SYSTEM DESIGN

- Topic No.14: Inform and involve the organization, aim of detailed design, project management of MIS detailed design
- Topic No.15: identify dominant, trade of criteria
- Topic No.16: Define the sub systems, sketch the detailed operating sub systems, sketch the detailed information flow
- Topic No.17: Determine the degree of automation of each operation, inform and involve the organization again
- Topic No.18: inputs outputs and processing, early system testing software
- Topic No.19: hardware and tools proposed to organization to operate the system, documentation of detailed design

Unit No.4 IMPLEMENTATION, EVALUATION AND MAINTENANCE OF THE MIS

- Topic No.20: Plan the implementation, acquire floor space and plan space layouts, organize for implementation
- Topic No.21: Develop procedures for implementation, train the operating personnel
- Topic No.22: computer related acquisitions, develop forms for data collection and information dissemination
- Topic No.23: Develop the files test the system, cut-over, document the system
- Topic No.24: Evaluate the MIS control and maintain the system, Pitfalls in MIS development
- Topic No.25: Redesigning the organization with Information systems, Managing Knowledge Work

| Study Scheme | | | | Evaluation Scheme | | | Total Marks |
|-------------------|---|---|---------|---------------------|-----------------------------------|---------------|-------------|
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| L | T | P | Credits | Max. Marks | Max. Marks | Exam Duration | |
| 4 | | | 4 | 25 | 75 | 3 hours | 100 |

TEXT BOOKS:

1. Management Information System by W. S. Jawadekar, 2002, Tata McGraw Hill.
2. Information System for Modern Management (3rd edition)- Robert G. Murdick, Loel E. Ross & James R. Claggett. PHI

REFERENCE BOOKS:

1. Management Information System; O Brian; TMH
2. Management Information System by Davis Olson Mac Graw Hill



SYLLABUS: B Tech (CSE)

Department: Computer Science & Engineering – 7th Semester

Subject: SOFTWARE TESTING (Theory)

Subject Code: IT 304B

Detailed Content

Unit No.1 Introduction

- Topic No.1: What is software testing and why it is so hard ?
- Topic No.2: Error, Fault, Failure, Incident
- Topic No.3: Test Cases
- Topic No.4: Testing Process
- Topic No.5: Limitations of Testing
- Topic No.6: No absolute proof of correctness
- Topic No.7: Overview of Graph Theory
- Topic No.8: Functional Testing
- Topic No.9: Boundary Value Analysis
- Topic No.10: Equivalence Class Testing
- Topic No.11: Decision Table Based Testing
- Topic No.12: Cause Effect Graphing Technique

Unit No.2 Structural Testing and Testing activities

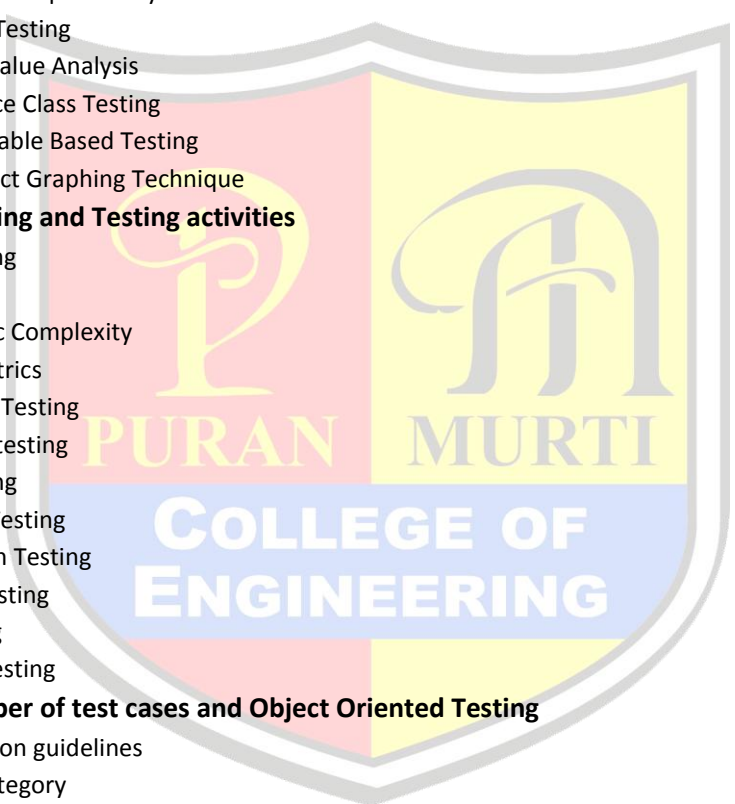
- Topic No.13: Path testing
- Topic No.14: DD-Paths
- Topic No.15: Cyclomatic Complexity
- Topic No.16: Graph Metrics
- Topic No.17: Data Flow Testing
- Topic No.18: Mutation testing
- Topic No.19: Unit Testing
- Topic No.20: Levels of Testing
- Topic No.21: Integration Testing
- Topic No.22: System Testing
- Topic No.23: Debugging
- Topic No.24: Domain Testing

Unit No.3 Reducing the number of test cases and Object Oriented Testing

- Topic No.25: Prioritization guidelines
- Topic No.26: Priority category
- Topic No.27: Scheme
- Topic No.28: Risk Analysis
- Topic No.29: Regression Testing
- Topic No.30: Slice based testing
- Topic No.31: Issues in Object Oriented Testing
- Topic No.32: Class Testing
- Topic No.33: GUI Testing
- Topic No.34: Object Oriented Integration
- Topic No.35: System Testing

Unit No.4 Testing Tools

- Topic No.36: Static Testing Tools
- Topic No.37: Dynamic Testing Tools





- Topic No.38: Characteristics of Modern Tools
- Topic No.39: Implementation with example
- Topic No.40: Advanced topics in software testing
- Topic No.41: web based testing
- Topic No.42: Client server testing
- Topic No.43: Automated test cases generation
- Topic No.44: Regular expression
- Topic No.45: FSM based testing.

| Study Scheme | | | | Evaluation Scheme | | | Total Marks |
|-------------------|---|---|---------|---------------------|-----------------------------------|---------------|-------------|
| Lectures per week | | | | Internal Assessment | External Assessment (Examination) | | |
| L | T | P | Credits | Max. Marks | Max. Marks | Exam Duration | |
| 3 | 1 | | 4 | 25 | 75 | 3 hours | 100 |

TEXT BOOKS:

2. William Perry, Effective Methods for Software Testing , John Wiley & Sons, New York, 1995.
3. Cem Kaner, Jack Falk, Nguyen Quoc, Testing Computer Software , Second Edition, Van Nostrand
4. Reinhold, New York, 1993.
5. 3. Boris Beizer, Software Testing Techniques , Second Volume, Second Edition, Van Nostrand
6. Reinhold, New York, 1990.
7. 4. Louise Tamres, Software Testing , Pearson Education Asia, 2002

REFERENCE BOOKS:

1. Roger S. Pressman, Software Engineering – A Practitioner’s Approach , Fifth Edition, McGraw-Hill International Edition, New Delhi, 2001.
2. Boris Beizer, Black-Box Testing – Techniques for Functional Testing of Software and Systems , John Wiley & Sons Inc., New York, 1995.
3. K.K. Aggarwal & Yogesh Singh, Software Engineering , New Age International Publishers, New Delhi, 2003.
4. Marc Roper, Software Testing , McGraw-Hill Book Co., London, 1994.
5. Gordon Schulmeyer, Zero Defect Software , McGraw-Hill, New York, 1990.
6. Watts Humphrey, Managing the Software Process , Addison Wesley Pub. Co. Inc., Massachusetts,

Note:

In the semester examination, the examiner will set two questions from each unit (total 08 questions in all), covering the entire syllabus. The students will be required to attempt only 5 questions selecting at least one question from each unit.



SYLLABUS: B Tech (CSE)

Department: Computer Science & Engineering – 7th Semester

Subject: Distributed Operating System

Subject Code: CSE 461B

Detailed Content

Unit No.1 Introduction to Distributed System

- Topic No.1: Introduction to Distributed System
- Topic No.2: Characteristics of Distributed system
- Topic No.3: Network vs. centralized systems
- Topic No.4: Design issues
- Topic No.5: Resource sharing
- Topic No.6: the Web – Challenges
- Topic No.7: System models
- Topic No.8: Architectural model
- Topic No.9: fundamental model
- Topic No.10: Networking and internetworking Communication in Distributed System
- Topic No.11: Layered protocols
- Topic No.12: ATM networks
- Topic No.13: Client –Server model
- Topic No.14: Remote Procedure Calls
- Topic No.15: Group Communication

Unit No.2

- Topic No.16: Clock synchronization
- Topic No.17: Mutual Exclusion
- Topic No.18: Election algorithm
- Topic No.19: the Bully algorithm
- Topic No.20: a Ring algorithm
- Topic No.21: Transactions
- Topic No.22: Nested transactions
- Topic No.23: Locks
- Topic No.24: Optimistic concurrency control
- Topic No.25: Timestamp ordering
- Topic No.26: Comparison
- Topic No.27: Flat and nested distributed transactions
- Topic No.28: Atomic commit protocols
- Topic No.29: Concurrency control in distributed transactions
- Topic No.30: Deadlock in Distributed Systems
- Topic No.31: Distributed Deadlock Prevention
- Topic No.32: Distributed Deadlock Detection
- Topic No.33: Threads
- Topic No.34: System models
- Topic No.35: Processors Allocation
- Topic No.36: Scheduling in Distributed System
- Topic No.37: Real Time Distributed Systems



Unit No.3-A Distributed file systems

- Topic No.38: Distributed file system Design
- Topic No.39: Distributed file system Implementation
- Topic No.40: Trends in Distributed file systems

Unit No.3-B Distributed Shared Memory

- Topic No.41: What is shared memory?
- Topic No.42: Consistency models
- Topic No.43: Page based distributed shared memory
- Topic No.44: shared variables distributed shared memory

Unit No.4: Features of PIC Microcontroller

- Topic No.45: Overview of security techniques
- Topic No.46: Cryptographic algorithms
- Topic No.47: Digital signatures
- Topic No.48: Cryptography pragmatics
- Topic No.49: Replication
- Topic No.50: System model
- Topic No.51: group communications
- Topic No.52: Fault tolerant services
- Topic No.53 Highly available services
- Topic No.54: Transactions with replicated data

| Study Scheme | | | | Evaluation Scheme | | | Total Marks |
|-------------------|---|---|---------|---------------------|-----------------------------------|---------------|-------------|
| Lectures per week | | | | Internal Assessment | External Assessment (Examination) | | |
| L | T | P | Credits | Max. Marks | Max. Marks | Exam Duration | |
| 4 | | | 4 | 25 | 75 | 3 hours | 100 |

TEXT BOOKS:

1. Andrew S. Tanenbaum, Maarten van Steen, Distributed Systems, —Principles and Paradigms||, Pearson Education, 2002.
2. George Coulouris, Jean Dollimore and Tim Kindberg, —Distributed Systems Concepts and Design||, 3rd Edition, Pearson Education, 2002.

REFERENCE BOOKS:

1. Tanenbaum and Steen, —Distributed Systems||, PHI, 2002.
2. Sape Mullender, —Distributed Systems||, 2nd Edition, Addison Wesley, 1993.
3. Albert Fleishman, —Distributed Systems: Software Design and Implementation||, Springer Verlag, 1994.
4. M. L. Liu, —Distributed Computing Principles and Applications||, Pearson Education, 2004.

Note:

In the semester examination, the examiner will set two questions from each unit (total 08 questions in all), covering the entire syllabus. The students will be required to attempt only 5 questions selecting at least one question from each unit.



SYLLABUS: B Tech (CSE)

Department: Computer Science & Engineering – 7th Semester

Subject: MOBILE APPLICATIONS DEVELOPMENT (lab)

Subject Code: CSE 421B

List of Practicals

- Exp 1: Getting Started with Android Development
- Exp 2: Activities and Views: Android Manifest.xml, Activity Class ,Basic View Components: Layouts and Buttons
- Exp 3: Navigation with Data: Working with Intent, Sharing Data Between Activities, Application Class
- Exp 4: Android Resources: String Resources, Loading Strings in XML, Loading Strings in Code, The Resource Values Folder
- Exp 5: Drawables - Image Basics, Drawable Folders and Qualifiers, Dimensions, Image Padding, The ImageButton Widget
- Exp 6: Lists: Implementing an Android List, ListView, ListActivity, Empty Lists , ListAdapter, Sorting the Adapter, Overriding ArrayAdapter, List Interaction
- Exp 7: Dialogs, New and Old: AlertDialog, Custom Dialog, Support Library, Fragments, DialogFragment
- Exp 8: Menus: Options Menu, Modifying an Options Menu, Context Menu
- Exp 9: Saving Data with Shared Preferences: Shared Preferences, Getting Started with SharedPreferences, PreferenceActivity
- Exp 10: Saving Data with a Database: Setting Up SQLite, Creating a Helper , using the Helper, Cursor and CursorAdapater
- Exp 11: Threading with AsyncTasks: Threading in Android, AsyncTask, Tracking Progress
- Exp 12: Styles and Themes: Introduction to Styling: Defining Styles, Defining Themes, Style Inheritance, Direct Theme References

Develop an Android based Project

| Study Scheme | | | | Evaluation Scheme | | | Total Marks |
|-------------------|---|---|---------|---------------------|-----------------------------------|---------------|-------------|
| Lectures per week | | | | Internal Assessment | External Assessment (Examination) | | |
| L | T | P | Credits | Max. Marks | Max. Marks | Exam Duration | |
| | | 2 | 1 | 20 | 30 | | 50 |



SYLLABUS: B Tech (CSE)

Department: Computer Science & Engineering – 7th Semester

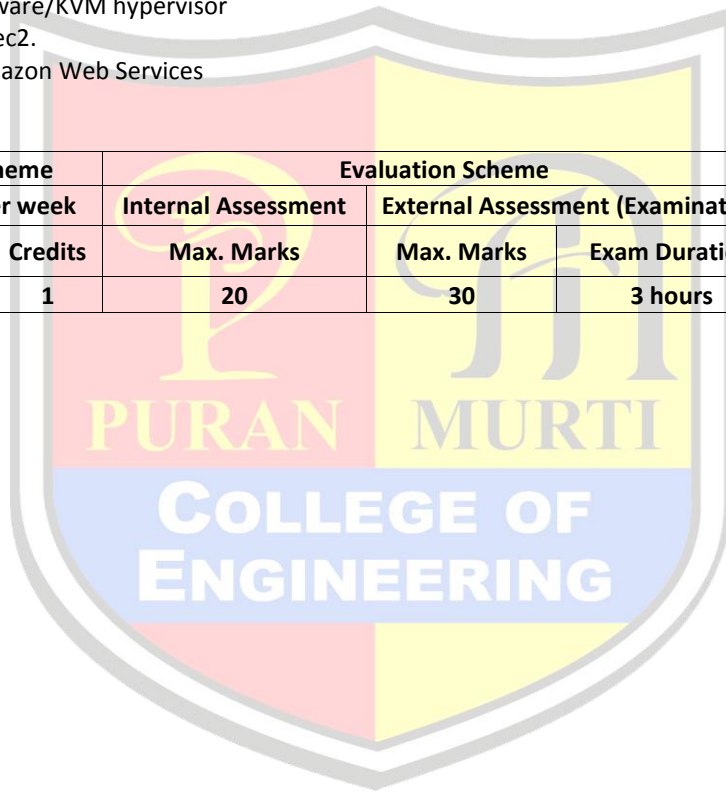
Subject: Cloud Computing (Lab)

Subject Code: CSE 423B

List of Practicals

1. Write a small application in JAVA or any other language.
2. Connect it to storage using Cloud SQL, a schemaless NoSQL datastore, or object storage using Cloud Storage.
3. Test the application using various tools like eclipse.
4. Development of applications on Google app engine.
5. Case study of private Cloud setup through OpenStack
6. Study DevStack - an OpenStack Community Production
7. Case study of private Cloud setup through CloudStack
8. Case study of XEN/VMware/KVM hypervisor
9. Case study of Amazon ec2.
10. Use EC2 with Other Amazon Web Services

| Study Scheme | | | | Evaluation Scheme | | | Total Marks |
|-------------------|---|---|---------|---------------------|-----------------------------------|---------------|-------------|
| Lectures per week | | | | Internal Assessment | External Assessment (Examination) | | |
| L | T | P | Credits | Max. Marks | Max. Marks | Exam Duration | |
| | | 2 | 1 | 20 | 30 | 3 hours | 50 |





SYLLABUS: B Tech (CSE)

Department: Computer Science & Engineering – 7th Semester

Subject: PROJECT

Subject Code: CSE 425B

Detailed Content

The primary objective of this course is to develop in students the professional quality of synthesis employing technical knowledge obtained in the field of Engineering & Technology through a project work involving design, analysis augmented with creativity, innovation and ingenuity.

Project involving design/ fabrication/ testing/ computer simulation/ case studies etc. which commences in the VII Semester will be completed in VIII Semester and will be evaluated through a panel of examiners consisting of the following:

- Chairman of Department** : **Chairperson**
Project coordinator : **Member Secretary**
Respective project supervisor : **Member**

The student will be required to submit two copies of his/her project report to the department for record (one copy each for the department and participating teacher).

Project coordinator will be assigned the project load of maximum of 2 hrs. per week including his own guiding load of one hr. However, the guiding teacher will be assigned maximum of one period of teaching load irrespective of number of students/groups under him/her.

The format of the cover page and the organization of the body of the report for all the B.Tech will be finalized and circulated by the Dean, Faculty of Engineering and Technology.

| Study Scheme | | | | Evaluation Scheme | | | Total Marks |
|-------------------|---|---|---------|---------------------|-----------------------------------|---------------|-------------|
| Lectures per week | | | | Internal Assessment | External Assessment (Examination) | | |
| L | T | P | Credits | Max. Marks | Max. Marks | Exam Duration | |
| | | 4 | 4 | 50 | 50 | - | 100 |



SYLLABUS: B Tech (CSE)

Department: Computer Science & Engineering – 7th Semester

Subject: PROFESSIONAL TRAINING II

Subject Code: CSE 427B

Detailed Content

- At the end of 6th semester each student would undergo four weeks Professional Training in an Industry/Institute/ Professional / Organization/ Research Laboratory etc. with the prior approval of the Training and Placement Officer of the University and submit in the department a typed report along with a certificate from the organization.
- The typed report should be in a prescribed format.
- The report will be evaluated in the VII Semester by a Committee consisting of three teachers from different specialization to be constituted by the Chairperson of the department. The basis of evaluation will primarily be the knowledge and exposure of the student towards different processes and the functioning of the organization.
- The student will interact with the committee through presentation to demonstrate his/her learning.
- Teachers associated with evaluation work will be assigned 2 periods per week load.

| Study Scheme | | | | Evaluation Scheme | | | Total Marks |
|-------------------|---|---|---------|---------------------|-----------------------------------|---------------|-------------|
| Lectures per week | | | | Internal Assessment | External Assessment (Examination) | | |
| L | T | P | Credits | Max. Marks | Max. Marks | Exam Duration | |
| | | 2 | 2 | | 50 | - | 50 |

