M.Sc. COMPUTER SCIENCE
SYLLABUS : 2012

CHOICE BASED CREDIT SYSTEM
(CBCS)

St. JOSEPH'S COLLEGE (Autonomous)
Re-accredited with 'A' Grade (3rd Cycle) by NAAC
College with Potential for Excellence by UGC
TIRUCHIRAPPALLI - 620 002, INDIA.
FEATURES OF CHOICE BASED CREDIT SYSTEM

PG COURSES

The Autonomous (1978) St. Joseph’s College, accredited with Five Star status in 2001, Re-accredited with **A+ Grade** from **NAAC (2006)**, Re-accredited with **A Grade** from **NAAC (3rd cycle)**, had introduced the Choice Based Credit System (**CBCS**) for PG courses from the academic year 2001-2002. As per the guidelines of Tamil Nadu State Council of Higher Education (TANSCHE) and the Bharathidasan University, the College has reformulated the CBCS in 2008-2009 by incorporating the uniqueness and integrity of the college.

OBJECTIVES OF THE CREDIT SYSTEM

❋ To provide mobility and flexibility for students within and outside the parent department as well as to migrate between institutions
❋ To provide broad-based education
❋ To help students learn at their own pace
❋ To provide students scope for acquiring extra credits
❋ To impart more job oriented skills to students
❋ To make any course multi-disciplinary in approach

What is credit system?

Weightage to a course is given in relation to the hours assigned for the course. Generally one hour per week has one credit. For viability and conformity to the guidelines credits are awarded irrespective of the teaching hours. The following Table shows the relation between credits and hours.

<table>
<thead>
<tr>
<th>Sem.</th>
<th>Specification</th>
<th>No. of Papers</th>
<th>Hour</th>
<th>Credit</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I - IV</td>
<td>Core Courses (Theory &amp; Practical)</td>
<td>14</td>
<td>6</td>
<td>$14 \times 5$</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>Project</td>
<td>1</td>
<td>–</td>
<td>$1 \times 5$</td>
<td>05</td>
</tr>
<tr>
<td>I - IV</td>
<td>3 - Core Electives</td>
<td>3</td>
<td>4</td>
<td>$3 \times 4$</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>1 - Soft Skill Course (Common) (IDC-1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 - Inter Dept. Courses (IDC-2)</td>
<td>2</td>
<td>4</td>
<td>$2 \times 4$</td>
<td>08</td>
</tr>
<tr>
<td>I - IV</td>
<td>SHEPHERD – Extension Activity</td>
<td>~</td>
<td>70</td>
<td>5</td>
<td>05</td>
</tr>
<tr>
<td></td>
<td><strong>Total Minimum Credits</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>100</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Other Additional Credits (Dept. Specific)</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>....</strong></td>
</tr>
</tbody>
</table>
However, there could be some flexibility because of practicals, field visits, tutorials and nature of project work.

For PG courses a student must earn a minimum of 100 credits. The total number of courses offered by a department is 20. However within their working hours a few departments can offer extra credit courses.

**Course Pattern**

The Post Graduate degree course consists of three major components. They are Core Course, Elective Course and Inter Departmental Course (IDC). Also 2 compulsory components namely Project / Project related items and SHEPERD, the extension components are mandatory.

**Core Course**

A core course is the course offered by the parent department, totally related to the major subject, components like Practicals, Projects, Group Discussions, Viva, Field Visits, Library Record form part of the core course.

**Elective Course**

The course is also offered by the parent department. The objective is to provide choice and flexibility within the department. The student can choose his/her elective paper. Elective is related to the major subject. The difference between core course and elective course is that there is choice for the student. The department is at liberty to offer three elective courses any semester. It must be offered at least in two different semesters. The staff too may experiment with diverse courses.

**Inter Departmental Course (IDC)**

IDC is an inter departmental course offered by a department for the students belonging to other departments. The objective is to provide mobility and flexibility outside the parent department. This is introduced to make every course multi-disciplinary in nature. It is to be chosen from a list of courses offered by various departments. The list is given at the end of the syllabus copies. Two IDCs must be taken by students which are offered in Semester II & III. In
semester II, a common IDC, Soft Skills is to be offered by JASS (Joseph Academy of Soft Skills).

**Day College (Shift-I) student may also take an IDC-2 from SFS (Shift-II) course and vice versa**

The IDC are of application oriented and inter-disciplinary in nature.

**Subject Code Fixation**
The following code system (9 characters) is adopted for Post Graduate courses:

- 12 - Year of Revision
- PXX - PG code for the Dept.
- X - Semester
- X - Specification of the part
- XX - Running Number in that Part

01 - Core Courses: Theory & Practical
02 - Core electives
03 - Additional Core Papers (if any)
04 - Inter Departmental Courses
05 - Project
06 - SHEPHERD

**CIA Components**

The CIA Components would comprise of two parts: (1) Test Components conducted by Controller of Examination (COE) and (2) Teacher specific component. The two centralized tests will be conducted by the COE (Mid-Semester Test & End-Semester Test) for 30% each administered for 2 hours duration. The remaining 40% would comprise of any three components as listed below and will be carried out by the faculty concerned for that paper.

- Assignment, Quiz (Written / Objective), Snap Test, Viva-Voce, Seminar, Listening Comprehension, Reading Comprehension, Problem Solving, Map Reading, Group Discussion, Panel Discussion, Field Visit, Creative Writing, Open Book Test, Library Record, Case Study, etc.
As a special consideration, students who publish papers in referred journals would be exempted from one of the teacher specific internal components in one of the papers. At the beginning of each semester, the four internal components would be informed to the students and the staff will administer those components on the date specified and the marks acquired for the same will be forwarded to the Office of COE.

**Evaluation**

For each course there are formative continuous internal assessment (CIA) and semester examinations (SE) in the weightage ratio 50:50.

Once the marks of CIA and SE for each course are available, the Overall Percentage Mark (OPM) for a student in the programme will be calculated as shown below:

\[
OPM = \frac{\sum C_i M_i}{\sum C_i}
\]

where \( C_i \) is the credit earned for that course in any semester and \( M_i \) is the marks obtained in that course.

The Scheme of Over-all Results is as follows:

<table>
<thead>
<tr>
<th>Class</th>
<th>PG Class Arts (OPM)</th>
<th>PG Class Science (OPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SECOND</td>
<td>50 to 59.99</td>
<td>50 to 59.99</td>
</tr>
<tr>
<td>FIRST</td>
<td>60 to 74.99</td>
<td>60 to 79.99</td>
</tr>
<tr>
<td>DISTINCTION</td>
<td>75 &amp; Above</td>
<td>80 &amp; Above</td>
</tr>
</tbody>
</table>

**Declaration of Result**

Mr./Ms. ______________________ has successfully completed M.Sc./M.A. degree course in ________________. The student’s overall average percentage of marks is _______ and has completed the minimum 100 credits. The student has also acquired _______ (if any) additional credits from courses offered by the parent department.
# M.Sc. Computer Science - Course Pattern

<table>
<thead>
<tr>
<th>SEM</th>
<th>CODE</th>
<th>SUBJECT</th>
<th>HR</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>12PCS1101</td>
<td>JAVA PROGRAMMING</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PCS1102</td>
<td>ADVANCED DATABASE SYSTEMS</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PCS1103</td>
<td>MATHEMATICAL FOUNDATIONS</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PCS1104</td>
<td>LAB: JAVA PROGRAMMING</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>12PCS1105</td>
<td>LAB: RDBMS &amp; D2K</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PCS1201A</td>
<td>ELECTIVE I: OOAD &amp; UML (OR)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12PCS1201B</td>
<td>ELECTIVE I: MIS</td>
<td>(4)</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total For Semester I</strong></td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>12PCS2106</td>
<td>WEB DEVELOPMENT WITH ASP.NET</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>12PCS2107</td>
<td>DISTRIBUTED OPERATING SYSTEM</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PCS2108</td>
<td>MICROPROCESSORS AND INTERFACING</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PCS2109</td>
<td>LAB: ASP.NET</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>12PCS2202A</td>
<td>ELECTIVE II: FUNDAMENTALS OF MOBILE AND PERVASIVE COMPUTING (OR)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12PCS2202B</td>
<td>ELECTIVE II: COMPILER DESIGN</td>
<td>(4)</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td>12PSK2401</td>
<td>IDC I: SOFT SKILLS</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total For Semester II</strong></td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>12PCS3110</td>
<td>PHP WITH MYSQL</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PCS3111</td>
<td>SOFTWARE ENGINEERING</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PCS3112</td>
<td>CRYPTOGRAPHY AND NETWORK SECURITY</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PCS3113</td>
<td>LAB: PHP</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12PCS3114</td>
<td>MINI PROJECT</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>12PCS3203A</td>
<td>ELECTIVE III: DATA WAREHOUSING &amp; DATA MINING(OR)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12PCS3203B</td>
<td>ELECTIVE III: ARTIFICIAL NEURAL NETWORKS</td>
<td>(4)</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td>12PCS3402A</td>
<td>IDC II: FLASH (OR)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12PCS3402B</td>
<td>IDC II: WEB DESIGN</td>
<td>(4)</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total For Semester III</strong></td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>IV</td>
<td>12PCS4501</td>
<td>MAJOR PROJECT</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>II-III</td>
<td>12PCS4601</td>
<td>EXTENSION SERVICE: SHEPHERD</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>TOTAL FOR ALL SEMESTERS</strong></td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>
AIM

To develop the programming skills of the students in JAVA language.

UNIT I 13 Hrs


UNIT II 13 Hrs


UNIT III 13 Hrs


UNIT IV 13 Hrs

THE APPLET CLASS: Applet Basics – Applet Architecture -

**UNIT V**


**BOOKS FOR STUDY**


**BOOK FOR REFERENCE**

AIM
* To offer exposure to the design and concepts of advanced database systems.

UNIT I
13 Hrs

UNIT II
13 Hrs

UNIT III
13 Hrs

UNIT IV
13 Hrs
OBJECT ORIENTED DATABASES: Object Oriented Data Model - Concept of Object Oriented Database – Object Oriented DBMS. OBJECT RELATIONAL DATABASE: ORDBMS query language – ORDBMS Design.
UNIT V 13 Hrs


BOOK FOR STUDY


BOOKS FOR REFERENCE

AIM

* To impart the mathematical concepts and numerical methods required for Information Technology.
* To make the student solve real life problems in Business and Management.

UNIT I 13 Hrs

OPERATION RESEARCH: Basics of OR – OR & Decision Making - Linear Programming- Mathematical Formulation-Graphical Solution – Canonical & Standard Forms of LPP.

UNIT II 13 Hrs


UNIT III 13 Hrs


UNIT IV 13 Hrs

INTERPOLATION: Lagrange’s and Newton Interpolation-Interpolating Polynomials using Finite Difference NUMERICAL INTERGRATION: Trapezoidal, Simpson’s rules and Romberg Integration.

UNIT V 13 Hrs

BOOKS FOR STUDY


LAB – JAVA PROGRAMMING

1. Class, Object and Constructor
2. Inheritance, Interface & Packages
3. Polymorphism
4. Exception Handling
5. I/O Streams
6. Applet & AWT
7. JDBC Connectivity
8. Thread
9. Networking
10. Java Beans
11. Swing
12. Servlets
SEM: I
12PCS1105
Credits: 5

LAB – RDBMS & D2K

SQL
1. Basic Queries and Aggregate Functions.
2. Set Operations
3. Joins
4. Sub Queries
5. View

PL/SQL
6. Cursors
7. Triggers
8. Exceptions
9. Procedures and Functions
10. Packages

D2K
11. Form Creation using Menu
12. Form Validation
ELECTIVE I: OOAD & UML

AIM

To impart the concepts of Object oriented methodologies and Unified Modeling Language.

UNIT I


UNIT II


UNIT III


UNIT IV


UNIT V

BOOKS FOR STUDY


BOOKS FOR REFERENCE


M.Sc. Computer Science - 2012

SEM: I Hours/Week : 4
12PCS1201B Credits : 4

ELECTIVE I - MANAGEMENT INFORMATION SYSTEMS

AIM
* To give an understanding about Information Systems, how it relates to a managerial end-user's business and to impart the knowledge on ERP Systems.

UNIT I 10 Hrs
INTRODUCTION TO INFORMATION SYSTEMS (IS):

UNIT II 12 Hrs
INFORMATION SYSTEMS FOR BUSINESS OPERATIONS:
Managing Information Resource and Technologies - Global IT Management - Planning and Implementing Business Change with IT.

UNIT III 12 Hrs
ENTERPRISE RESOURCE PLANNING (ERP):
An Overview - Benefits of ERP - ERP and Related Technologies - Business Process Reengineering. ERP IMPLEMENTATION:
UNIT IV  

UNIT V  
**E-BUSINESS DESIGN:** Construction an E-business Design – Self Diagnosis – Reversing the Value Chain – Choosing a Narrow Focus – Constructing the E-business Architecture: The New Era of Cross – Functional integrated Apps – Aligning the e-business Design with Application Integration.  

**BOOKS FOR STUDY**

**BOOK FOR REFERENCE**
AIM

To provide fundamental concepts of ASP.NET programming and a brief introduction about XML & Web Services.

UNIT I 13 Hrs


UNIT II 13 Hrs


UNIT III 13 Hrs


UNIT IV 13 Hrs

UNIT V


BOOK FOR STUDY


BOOK FOR REFERENCE

AIM

To provide fundamental concepts in the design of the Unix Operating System and Design Principles that is applicable to distributed operating system.

UNIT I 13 Hrs


UNIT II 13 Hrs


UNIT III 13 Hrs


UNIT IV 13 Hrs

UNIT V 13 Hrs

BUFFER CACHE: Buffer Headers - Structure of the Buffer Pool - Advantages and Disadvantages. INTERNAL REPRESENTATION OF FILES: Inodes - Structure of a Regular File - Directories - Conversion of a Path Name to an Inode - Super block

SYSTEM CALLS FOR THE FILE SYSTEM: Open - Read - Write - File and Record Locking - Adjusting the Position of File I/O - LSEEK - Close - File Creation - Creation of Special Files - Pipes - Dup - Mounting and Unmounting File Systems

BOOKS FOR STUDY

BOOK FOR REFERENCE

AIM

To impart knowledge on 8085 microprocessor architecture and its interfacing and to give necessary technical basis for understanding modern processors.

UNIT I 12 Hrs

UNIT II 13 Hrs
INSTRUCTION SET OF INTEL 8085: Instruction and Data Formats – Addressing Modes – Status Flags – Intel 8085 instructions. *Stress is not given to programming*

UNIT III 14 Hrs

UNIT IV 12 Hrs

UNIT V 14 Hrs
BOOK FOR STUDY


BOOK FOR REFERENCE

1. Form Design using Various Web Controls
2. Ad Rotator, Calendar Control and Login Control (Page Should Expire after 3 wrong attempts)
3. Validation Controls
4. Cookie Manipulation
5. State Management (using Session and Application)
6. Data Retrieval, Updating using ADO.NET (using Stored Procedure)
7. Designing Templates using DataList and DataGrid
8. Sorting and Paging using DataGrid
9. Day Planner Preparation using XML and ADO.NET
10. Data Caching
11. Partial Page Refresh using AJAX
12. Creating and Testing a Simple Web Service
AIM

To provide basis for various techniques in Mobile Computing and Mobile Computing.

UNIT I 12 Hrs


UNIT II 12 Hrs


UNIT III 12 Hrs


UNIT IV 12 Hrs

UNIT V 12 Hrs


BOOK FOR STUDY


BOOKS FOR REFERENCE

ELECTIVE II – COMPILER DESIGN

AIM

To inculcate various phases of a compiler and also to develop the skill of a student in designing a compiler.

UNIT I 12 Hrs


UNIT II 12 Hrs


UNIT III 12 Hrs


UNIT IV 12 Hrs


UNIT V 12 Hrs

CODE OPTIMIZATION AND CODE GENERATION: Elementary Code Optimization technique – Loop Optimization – DAG Representation of Basic Blocks – Value Numbers and Algebraic

**BOOK FOR STUDY**


**BOOKS FOR REFERENCE**


Unit 1: Effective Communication & Resume Writing  12 Hours

Effective Communication


Resume Writing


Unit II: Group Discussion, Interview Skills & Team Building  18 hours

Group Discussion (GD)

Group Discussion Basics, GD Topics for Practice, Points for GD Topics, Case-Based and Article based Group Discussions, Points for Case Studies, and Notes on Current Issues for GD.

Interview Skills

Common interview questions, Attitude, Body Language, The mock interviews, Phone interviews, Behavioral interviews.

Team Building

Team Vs Group – synergy, Stages of Team Formation, Dabbawala-Case Study-PPT, Broken Square-Exercise, Group dynamics, Win as much as you win- Exercise, Leadership – Styles, Work ethics.

Unit III: Personality Development, Attitude & Motivation  18 hours

Personality Development

Self awareness, Assertiveness, Goal setting, Problem-solving, Conflict and Stress Management, Decision-making skills, Positive and Creative thinking, Lateral thinking, Time management.
Attitude

Concept, Significance, Factors affecting attitudes, Positive attitude, Advantages, Negative attitude, Disadvantages, Ways to develop positive attitude, Difference between Personalities having positive and negative attitude.

Motivation

Concept of motivation, Significance, Internal and external motives, Importance of self-motivation, Factors leading to demotivation.

Unit IV: Numerical Ability 8 hours

- Average, Percentage
- Profit and Loss, Simple Interest, Compound Interest
- Time and Work, Pipes and Cisterns
- Time and Distance, Problems on Trains, Boats and Streams
- Calendar, Ratios and Proportions.

Unit- V: Test of Reasoning 8 hours

Verbal Reasoning

- Series Completion, Analogy
- Data Sufficiency, Assertion and Reasoning
- Logical Deduction

Non-Verbal Reasoning

- Series
- Classification

References

* Aggarwal, R.S. *Quantitative Aptitude*, S.Chand & Sons.


** Yate, Martin. (2005). *Hiring the Best: A Manager’s Guide to Effective Interviewing and Recruiting*
AIM
* To understand the fundamental concepts of the Apache, MySQL, PHP and the vital role of open source in programming paradigm.

UNIT I 11 Hrs

INTRODUCTION: Brief Introduction to PHP, Apache, MySQL, and Open Source – Pieces of AMP Module – Configuring Installation – Apache, PHP, and MySQL.

UNIT II 14 Hrs


UNIT III 14 Hrs

USING PHP WITH MYSQL: MySQL Structure and Syntax – Connecting to MySQL Server – Querying the Database. USING TABLES TO DISPLAY DATA: Creating a Table – Populating Table – Creating Master/Child Relationship. FORM ELEMENTS: First Form – Driving the User Input

UNIT IV 14 Hrs


UNIT V 12 Hrs

CASE STUDY: Sending Emails - User Logins, Profiles and Personalization. Content Management System - Online Stores.
BOOK FOR STUDY


BOOKS FOR REFERENCE


AIM

* To provide basic concepts of Software Engineering, Various models, Software Design, Software Development and Various Testing Strategies.

UNIT I


SYSTEM ENGINEERING: The System Engineering Hierarchy.

REQUIREMENTS ENGINEERING: Requirements Engineering Tasks – Initiating the Requirements Engineering Process.

UNIT II


UNIT III

UNIT IV 13 Hrs


UNIT V 13 Hrs


**BOOKS FOR STUDY**


**BOOKS FOR REFERENCE**


AIM

The basic issues to be addressed by a network security capability are explored through Cryptography.

UNIT I 13 Hrs


UNIT II 13 Hrs


UNIT III 13 Hrs


UNIT IV 13 Hrs

UNIT V

13 Hrs

**INTRUDERS:** Intrusion Detection - Password Management.

**MALICIOUS SOFTWARE:** Virus and Related Threats.

**FIREWALLS:** Firewall Design Principles.

**BOOK FOR STUDY**


**BOOK FOR REFERENCE**


**SEM: III**

**12PCS3113**

**Hours/Week: 4**

**Credits: 4**

**LAB – PHP**

1. Using Controls and Functions
2. Message Passing Mechanism between Pages
3. String Functions and Arrays.
4. Display Student Information using MySQL Table.
5. Develop a College Application Form using MySQL Table
6. Check File System Functions, Network Functions, Date and Time Functions.
7. Session
8. Cookies
9. Parsing Functions (using Tokenizing)
10. Regular Expression & Hashing Functions.
ELECTIVE III - DATA WAREHOUSING & DATA MINING

AIM

To provide an understanding of Data Warehousing and Data Mining concepts.

UNIT I 12 Hrs

UNIT II 12 Hrs

UNIT III 12 Hrs
FREQUENT PATTERNS, ASSOCIATIONS AND CLASSIFICATION: The Apriori Algorithm – Definition of Classification and Prediction – Classification by Decision Tree Induction – Bayesian Classification – Rule Based Classification – Classification by Back Propagation – Lazy Learners – K-Nearest Neighbor – Other Classification Methods.

UNIT IV 12 Hrs
UNIT V  

12 Hrs


BOOK FOR STUDY

Jiawei Han and Micheline Kamber, “Data Mining Concepts and Techniques”, 2nd Ed., Morgan Kaufmann Publishers, 2006.

BOOK FOR REFERENCE

AIM

* To introduce some of the fundamental techniques and principles of neural network systems.

UNIT I 12 Hrs

INTRODUCTION: Definition – Fundamental Concepts – Applications – Advantages and Disadvantages – Classifications – Biological Neural Network – Artificial Neural Structure – Activation Functions – Adding Bias – Perception – MLP

UNIT II 12 Hrs


UNIT III 12 Hrs


UNIT IV 12 Hrs


UNIT V 12 Hrs

ANN SIMULATION IN MATLAB: Creating a Custom Neural Network - Initialization - Setting Weights and Bias - Using Different Transfer Functions - Using Training Parameters - Simulating and Plotting Network - Designing Self Organizing Maps (Unsupervised).
BOOK FOR STUDY


BOOKS FOR REFERENCE

AIM

* To understand the Basic Concepts of Flash and To provide hands on experience on the tools in Flash.

UNIT I 10 Hrs


UNIT II 10 Hrs

SYMBOLS, INSTANCES AND THE LIBRARY:


UNIT III 10 Hrs

WORKING WITH TEXT: Text Field Types in Flash – The Text Tool and the Property Inspector – Modifying Text.

UNIT IV  

UNIT – V  

BOOK FOR STUDY


BOOK FOR REFERENCE

AIM

To understand the basis of Internet, HTML and JAVA SCRIPT.

UNIT I 12 Hrs


UNIT II 12 Hrs

HTML: Tags - Comment – HTML Documents – Anchor Tag – Hyper Links - Head and Body Section - Title – Colorful Webpages – Aligning the Heading – Images and Pictures – Unordered List – Ordered List - Nested List.

UNIT III 12 Hrs


UNIT IV 12 Hrs


UNIT V 12 Hrs

DYNAMIC WEBPAGES: Changing Pages based on Date and Time – Arrays – Changing the Background Color through Random Numbers - Using the Images and Area - Field level Validation.
BOOKS FOR STUDY


3. Lee Purcell, Mary Jane Mara, ”The ABC’s of JavaScript”, BPB Pub., New Delhi, 1997. UNITS IV & V.

BOOK FOR REFERENCE

INTER DEPARTMENTAL COURSE – IDC

BIOCHEMISTRY
12PSK2401 SOFT SKILLS
12PBI3402 FIRST AID MANAGEMENT

BIOTECHNOLOGY
12PSK2401 SOFT SKILLS
12PBT3402 APPLIED BIOTECHNOLOGY

BOTANY
12PSK2401 SOFT SKILLS
12PBO3402 HORTICULTURE & LANDSCAPING

CHEMISTRY
12PSK2401 SOFT SKILLS
12PCH3402 HEALTH CHEMISTRY

COMMERCE
12PSK2401 SOFT SKILLS
12PCO3402 FINANCIAL ACCOUNTING FOR MANAGERS

COMMERCE (CA)
12PSK2401 SOFT SKILLS
12PCC3402 CAREER PLANNING AND MANAGEMENT

COMPUTER APPLICATIONS
12PSK2401 SOFT SKILLS
12PCA3402 COMPUTER APPLICATIONS FOR SOCIAL SCIENCES
12PCA3403 FUNDAMENTALS OF PROGRAMMING

COMPUTER SCIENCE
12PSK2401 SOFT SKILLS
12PCS3402A FLASH
12PCS3402B WEB DESIGN
ECONOMICS
12PSK2401  SOFT SKILLS
12PEC3402  INDIAN ECONOMY

ELECTRONICS
12PSK2401  SOFT SKILLS
12PEL3402  COMPUTER HARDWARE

ENGLISH
12PSK2401  SOFT SKILLS
12PEN3402  ENGLISH FOR MEDIA STUDIES

HISTORY
12PSK2401  SOFT SKILLS
12PHI3402  INDIAN CONSTITUTION

HUMAN RESOURCE MANAGEMENT
12PSK2401  SOFT SKILLS
12PHR3402  FUNDAMENTALS OF HRM

INFORMATION TECHNOLOGY
12PSK2401  SOFT SKILLS
12PIT3402A  FLASH
12PIT3402B  WEB DESIGN

MATHEMATICS
12PSK2401  SOFT SKILLS
12PMA3402  OPERATIONS RESEARCH

PHYSICS
12PSK2401  SOFT SKILLS
12PPH3402  MODERN PHOTOGRAPHY

TAMIL
12PSK2401  ஏழுநிலைத்தொகுதிகள்
12PTA3402  ஆசிரியரின் தமிழ் - I