M.Sc. INFORMATION TECHNOLOGY
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>4 x 5</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>Project</td>
<td>1</td>
<td>--</td>
<td>4 x 5</td>
<td>08</td>
</tr>
<tr>
<td>I - IV</td>
<td>Core Electives</td>
<td>3</td>
<td>4</td>
<td>1 x 4</td>
<td>12</td>
</tr>
<tr>
<td>I - IV</td>
<td>Soft Skill Course (Common) (IDC-1)</td>
<td>1</td>
<td>--</td>
<td>1 x 4</td>
<td>12</td>
</tr>
<tr>
<td>I - IV</td>
<td>Inter Dept. Courses (IDC-2)</td>
<td>2</td>
<td>4</td>
<td>2 x 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>
</tbody>
</table>

Total Minimum Credits 100
Other Additional Credits (Dept. Specific) ....
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 IDC’s must be taken by students which are offered in Semester II & III.
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:

- 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>Arts (OPM)</th>
<th>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. Information Technology - 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>12PIT1101</td>
<td>C++ AND DATA STRUCTURES</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PIT1102</td>
<td>ADVANCED DATABASE SYSTEMS</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PIT1103</td>
<td>OPERATING SYSTEMS</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PIT1104</td>
<td>LAB: C++ AND DATA STRUCTURES</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>12PIT1105</td>
<td>LAB: RDBMS &amp; D2K</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PIT1201A</td>
<td>ELECTIVE I: UNIFIED MODELING TECHNIQUES (OR)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12PIT1201B</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>12PIT2106</td>
<td>JAVA PROGRAMMING</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PIT2107</td>
<td>WEB DEVELOPMENT WITH ASP.NET</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PIT2108</td>
<td>LAB: JAVA</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>12PIT2109</td>
<td>LAB: ASP.NET</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>12PIT2202A</td>
<td>ELECTIVE II: GRAPHICS AND MULTIMEDIA (OR)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12PIT2202B</td>
<td>ELECTIVE II: ARTIFICIAL INTELLIGENCE</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>12PIT3110</td>
<td>PHP WITH MYSQL</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PIT3111</td>
<td>SOFTWARE ENGINEERING</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PIT3112</td>
<td>COMMUNICATION NETWORKS</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>12PIT3113</td>
<td>LAB: PHP, PHOTOSHOP &amp; FLASH</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12PIT3114</td>
<td>MINI PROJECT</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>12PIT3203A</td>
<td>ELECTIVE III: DATA WAREHOUSING &amp; DATA MINING (OR)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12PIT3203B</td>
<td>ELECTIVE III: PROJECT MANAGEMENT</td>
<td>(4)</td>
<td>(4)</td>
</tr>
<tr>
<td></td>
<td>12PIT3402A</td>
<td>IDC II: FLASH (OR)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>12PIT3402B</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></td>
<td>12PIT4501</td>
<td>MAJOR PROJECT</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II-III</td>
<td>12PIT4601</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>

**TOTAL FOR ALL SEMESTERS: 100 CR**
C++ AND DATA STRUCTURES

AIM

* To develop the programming skills in C++ language and to understand the basic principles of data structures and algorithms.

UNIT I

13 Hrs

Principles of OOP - Beginning with C++ - Token, Expressions and Control Statements - Functions.

UNIT II

13 Hrs

Classes and Objects - Constructor and Destructors - Operator Overloading and Type Conversion- Inheritance.

UNIT III

13 Hrs

Polymorphism - Friend Function - Virtual Function - Working with Files – Templates - Exception Handling.

UNIT IV

13 Hrs

SEARCHING: Linear – Binary – Hash

UNIT V

13 Hrs

SORTING: Bubble Sort - Insertion Sort – Selection Sort - Heap Sort - Quick Sort. ALGORITHM DESIGN TECHNIQUES: Greedy Algorithm (Minimum Spanning Tree), Divide and Conquer (Merge Sort), Dynamic Programming (All Pairs Shortest Path) – Back Tracking (Eight Queens) – Recursion (Tower of Hanoi)

BOOKS FOR STUDY


2. Ellis Horowitz and Sartaj Sahni,“Fundamentals of Data Structures”, Galgotia, 2005. UNIT IV

BOOKS FOR REFERENCE


ADVANCED DATABASE SYSTEMS

AIM

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

UNIT I 13 Hrs


UNIT II 13 Hrs


UNIT III 14 Hrs


UNIT IV 13 Hrs

DATABASE RECOVERY SYSTEM: Database Recovery Concepts – Types of Database Failures – Types of Database Recovery
- Recovery Techniques. **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**

12 Hrs


**BOOKS FOR STUDY**


**BOOKS FOR REFERENCE**


AIM
* To provide the basic concepts of an Operating System and explore Windows Operating System using WIN32 API with MFC and the rudiments of UNIX Operating System.

UNIT I 13 Hrs

UNIT II 13 Hrs

UNIT III 13 Hrs

UNIT IV 13 Hrs
Programming Model - Introduction to MFC – MFC Application -
Drawing in a window: Windows GDI – Drawing with GDI.

UNIT V  
13 Hrs


BOOKS FOR STUDY

BOOKS FOR REFERENCE
M.Sc. Information Tech - 2012

SEM: I
12PIT1104

Hours/Week: 6
Credits: 6

LAB - C++ AND DATA STRUCTURES

C++
1. Classes and Objects
2. Constructors and Destructors
3. Operator Overloading
4. Inheritance
5. Polymorphism
6. File I/O Operations

DATA STRUCTURES
7. Stack Operation
8. Queue Operation
9. Linked List
10. Tree Traversal
11. Sorting
12. Searching
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
AIM

* To impart knowledge about UML concepts.

UNIT I 12 Hrs


UNIT II 12 Hrs

ADVANCED STRUCTURAL MODELING: Advanced Classes - Advanced Relationships - Interfaces - Types and Roles - Packages - Instances - Object Diagrams

UNIT III 12 Hrs


UNIT IV 12 Hrs


UNIT V 12 Hrs

BOOKS FOR STUDY

BOOKS FOR REFERENCE
ELECTIVE I - MANAGEMENT INFORMATION SYSTEMS

AIM

* To give an understanding about Information Systems, how it relates to managerial end-users 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:

UNIT III 12 Hrs

UNIT IV 13 Hrs


UNIT V 13 Hrs

E-BUSINESS DESIGN: Construction of 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 develop the programming skills in JAVA language.

UNIT I 13 Hrs


UNIT II 13 Hrs


UNIT III 13 Hrs


UNIT IV 13 Hrs

Repainting – The HTML APPLET Tag – Passing Parameters to Applets. **EVENT HANDLING:** Event Classes – Event Listeners. 

**UNIT V**

13 Hrs


**BOOKS FOR STUDY**


**BOOK FOR REFERENCE**

WEB DEVELOPMENT WITH ASP.NET

AIM
* To provide the 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

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
1. Form Design using Various Web Controls
2. Ad Rotator and Calendar Control, 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. 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 understand the fundamental concepts of Graphics, Multimedia, Flash, and Photoshop.

UNIT I


UNIT II


UNIT III


UNIT IV

UNIT V  


**BOOKS FOR STUDY**


4. Laurie Ulrich Fuller, Robert C. Fuller, “PHOTOSHOP CS3 BIBLE”, Wiley Publishing Inc. UNIT V.
ELECTIVE II: ARTIFICIAL INTELLIGENCE

AIM

To impart the basic concepts of Artificial Intelligence and its applications.

UNIT I  12 Hrs


UNIT II  12 Hrs


UNIT III  14 Hrs


UNIT IV  10 Hrs

EXPERT SYSTEMS: Representing and Using Domain Knowledge – Expert System Shells – Knowledge Acquisition –

UNIT V  12 Hrs


BOOK FOR STUDY


BOOK FOR REFERENCE

IDC-I: SOFT SKILLS

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.
 * Alex, K. (2009). Soft Skills, New Delhi, S. Chand & Company Ltd.


** 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 and 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

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


BOOK FOR REFERENCE


AIM

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

UNIT I 13 Hrs


UNIT II 12 Hrs


UNIT III 14 Hrs

UNIT IV  


**UNIT V**


**BOOKS FOR STUDY**


**BOOKS FOR REFERENCE**


AIM

To provide the concept of communications networks with network security.

UNIT I  13 Hrs


UNIT II  13 Hrs


UNIT III  13 Hrs


UNIT IV  13 Hrs

UNIT V 13 Hrs


BOOK FOR STUDY


BOOK FOR REFERENCE

LAB – PHP, PHOTOSHOP & FLASH

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

PHOTOSHOP
9. Develop an image using selection and allied operations
10. Develop an image using effects and apply filters

FLASH
11. Develop an image with the help of basic shapes.
12. Animate an image using motion, shape tweening, and actions.
ELECTIVE III - DATA WAREHOUSING & DATA MINING

AIM

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

UNIT I  12 Hrs


UNIT II  12 Hrs

DATA WAREHOUSING: Multidimensional Data Model – Data Warehouse Architecture – Data Warehouse Implementation – From Data Warehousing to Data Mining – Online Analytical Processing - Online Analytical Mining.

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

ELECTIVE III: PROJECT MANAGEMENT

AIM

To understand the basic principles of Project Management.

UNIT I: Requirement & Planning 12 Hrs


UNIT II: Software Models 12 Hrs


UNIT III: Budget Control 12 Hrs

UNIT IV: Software Contract and Quality  
12 Hrs

UNIT V: Case Studies  
12 Hrs

BOOK FOR STUDY
AIM

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

UNIT I  10 Hrs


UNIT II  10 Hrs


UNIT III  10 Hrs

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

UNIT IV  
CREATING ANIMATION AND EFFECTS: Timeline Animation – Basic Methods of Flash Animation – Frame by Frame Animation – Modifying Multiframe Sequences using Tween’s for Animation – Integrating Multiple Animation Sequences – Organizing Symbol Instances on the Main Timeline – Reusing and Modifying Symbol Instances.  

UNIT V  
ADDING SOUND: Importing Sounds into Flash – Assigning Sounds to a Button – Adding Sounds to the Timeline.

BOOK FOR STUDY  

BOOK FOR REFERENCE  
AIM

* To understand the basics 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  

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


BOOK FOR REFERRENCE

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
<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOMICS</td>
<td>12PSK2401</td>
<td>SOFT SKILLS</td>
</tr>
<tr>
<td></td>
<td>12PEC3402</td>
<td>INDIAN ECONOMY</td>
</tr>
<tr>
<td>ELECTRONICS</td>
<td>12PSK2401</td>
<td>SOFT SKILLS</td>
</tr>
<tr>
<td></td>
<td>12PEL3402</td>
<td>COMPUTER HARDWARE</td>
</tr>
<tr>
<td>ENGLISH</td>
<td>12PSK2401</td>
<td>SOFT SKILLS</td>
</tr>
<tr>
<td></td>
<td>12PEN3402</td>
<td>ENGLISH FOR MEDIA STUDIES</td>
</tr>
<tr>
<td>HISTORY</td>
<td>12PSK2401</td>
<td>SOFT SKILLS</td>
</tr>
<tr>
<td></td>
<td>12PHI3402</td>
<td>INDIAN CONSTITUTION</td>
</tr>
<tr>
<td>HUMAN RESOURCE MANAGEMENT</td>
<td>12PSK2401</td>
<td>SOFT SKILLS</td>
</tr>
<tr>
<td></td>
<td>12PHR3402</td>
<td>FUNDAMENTALS OF HRM</td>
</tr>
<tr>
<td>INFORMATION TECHNOLOGY</td>
<td>12PSK2401</td>
<td>SOFT SKILLS</td>
</tr>
<tr>
<td></td>
<td>12PIT3402A</td>
<td>FLASH</td>
</tr>
<tr>
<td></td>
<td>12PIT3402B</td>
<td>WEB DESIGN</td>
</tr>
<tr>
<td>MATHEMATICS</td>
<td>12PSK2401</td>
<td>SOFT SKILLS</td>
</tr>
<tr>
<td></td>
<td>12PMA3402</td>
<td>OPERATIONS RESEARCH</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>12PSK2401</td>
<td>SOFT SKILLS</td>
</tr>
<tr>
<td></td>
<td>12PPH3402</td>
<td>MODERN PHOTOGRAPHY</td>
</tr>
<tr>
<td>TAMIL</td>
<td>12PSK2401</td>
<td>தமிழ்முழுவிலானது கல்வி - I</td>
</tr>
<tr>
<td></td>
<td>12PTA3402</td>
<td>தமிழ்முழுவிலானது கல்வி - I</td>
</tr>
</tbody>
</table>