

PG AND RESEARCH DEPARTMENT OF COMPUTER APPLICATIONS  
SACRED HEART COLLEGE(AUTONOMOUS), TIRUPATTUR, TIRUPATTUR-635601  
ACADEMIC YEAR : 2019 - 2020

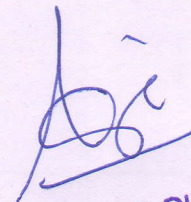
Certificate Course : JAVA (JSP with MVC)

Total Hours: 30

Date : 17.08.2019

Course Content

- Manage application state with Sessions to track unique user actions
- Leverage Cookies to personalize a web site for a specific user
- Integrate the JSP Standard Tag Library (JSTL) to minimize scriptlet code
- Build a Multi-Lingual app using Internationalization and JSTL
- Build an MVC application with JSP and Servlets
- Generate HTML Tables with JSP and Servlets
- Add database support with JDBC: query, insert, update and delete
- Build a complete database web app with JDBC




Dr. A. GEORGE LOUIS RAJA  
Asst. Prof & Head,  
PG & Research Dept. of Computer Applications  
Sacred Heart College (Autonomous),  
Tirupattur-635 601. Tirupattur (Dt.)

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SACRED HEART COLLEGE(AUTONOMOUS), TIRUPATTUR, TIRUPATTUR-635601  
ACADEMIC YEAR : 2019 - 2020**

**MCA347S - SOFT SKILLS**

Content	Topics	Hours
<b>Introductory Module</b>	Being someone and knowing someone Setting expectations Non-verbal Communication Move like a Machine	6 Hours
<b>Understand self</b>	Brief account of life My life roles rainbow Who am I Communication skills SWOT Conflict resolution Decision making Time management	10 Hours
<b>Understand career</b>	Life after college/ITI Career and me Understanding career Interests & Abilities Multiple Intelligence	6 Hours
<b>Preparing for work</b>	Workplace expectation (Digital lesson) Resume & Interview (Digital lesson) LinkedIn Week (Digital lesson) My Image (Digital lesson) Preparing for interview (Digital lesson) Mock Interview	8 Hours
<b>TOTAL HOURS</b>		<b>30 HRS</b>

  
**Dr. A. GEORGE LOUIS RAJA**  
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PG AND RESEARCH DEPARTMENT OF COMPUTER APPLICATIONS  
SACRED HEART COLLEGE(AUTONOMOUS), TIRUPATTUR, TIRUPATTUR-635601  
ACADEMIC YEAR : 2019 - 2020  
Mobile Technologies

Total Hours: 30

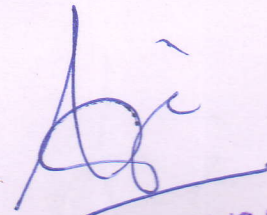
Date : 10.09.2019

PROGRAMME SCHEDULE

S. No	Day Order	Time
1	VI	02.30 – 03.30

**Course Content**

- Mobile Application Model, Frameworks and Tools.
- Multimodal and Multichannel UI, Screen Elements and Layouts, Voice XML.
- Work flow for Application Development, Java API, Plug-ins and Rule of Thumb for using DLLs.
- Android Application Architecture, Android basic Components, Storing and Retrieving Data, Packaging and Deployment.



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PG AND RESEARCH DEPARTMENT OF COMPUTER APPLICATIONS  
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ACADEMIC YEAR : 2019 - 2020

MCA547S - QUANTITATIVE APTITUDE

Total Hours: 30

Date : 20.10.2020

S. No	Day Order	Time
1	II	01.30 PM - 03.30 PM

**OBJECTIVES**

- To obtain aptitude skills and to solve quantitative problems.

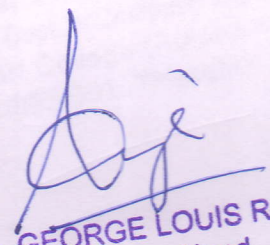
**UNIT 1:** Averages – Problems on numbers – Problems on ages – Percentage.

**UNIT 2:** Profit and loss – Ratio and proportion – Time and work – Pipes and cisterns.

**UNIT 3:** Partnership – Time and distance – Problems on trains.

**UNIT 4:** Boats and streams – Simple interest – Compound interest.

**UNIT 5:** Calendar – Clocks – Permutations and Combinations – Probability.

  
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**DEPARTMENT OF BUSINESS  
ADMINISTRATION**  
**SACRED HEART COLLEGE**  
**(AUTONOMOUS)**  
**Tirupattur - 635 601, Tirupattur Dt,**  
**Tamil Nadu, India.**

**CERTIFICATE COURSE IN NGO MANAGEMENT**

**10-09-2019 TO 26-09-2019**

**30 HOURS**

**Department of Business Administration**

**Sacred Heart College (Autonomous)**

**Certificate Course Syllabus**

**Semester - III**

**Certificate in NGO Management**

**Unit – I – Concepts and Functions of NGO**

Introduction – What is an NGO? – Define NGO – Does the Government Recognize NGOs? – Kinds of NGO's Functioning in India – Working of NGOs – NGO Environment – Issues in NGO Management - Aid to Development – Poverty and Development – Poverty and Exploitation – Poverty and Powerlessness – Development Indicators .

**Unit – II Problem Identification**

Introduction – Problem Identification – Problems of NGOs – Strengthening Voluntary Efforts – Managing People – Governance – Governance and Management – Need for Good Governance for NGOs – Ethical Challenges – Leadership – Need for Leadership with values .

**Unit – III Strategy and Planning**

Elements of Strategy – Introduction – Understanding your organization – Organization Development- Strategy and Planning – Strategy in the Management World – Elements of a Strategic Plan – Core Values – Strategic Goals.

**Unit – IV: SWOT Analysis**

Introduction – SWOT analysis – Meaning of Strengths and Weakness – Alternative Formats to Analyze Strengths and Weaknesses – Matching Strength and Weaknesses- The concept of Synergy.

**Unit - V: Process of Management & Reporting**

Planning – Organizing – Staffing – Directing – Controlling – Coordinating - Introduction to Communications- General Guidelines in Preparing Reports – Procedure of Reporting – Stages in Reporting – Long Reports – Short Reports.

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**Reference Books**

1. Abell, Derek F and John S. Hammond: Strategic Market Planning: Problems and Analytical Approaches, Prentice Hall, Englewood Cliffs: New Jersey
  2. Peter Drucker: Tasks, Responsibilities, Practice, New York: Harper & Row
  3. Ansoff, H Igor: Business Strategy, Penguin Books Limited, Harmondsworth
  4. Porter, Michael E: Competitive Strategy: Techniques for Analyzing Industries and Competitors, The Free Press, A Division of Macmillan publishing Co
-



**DEPARTMENT OF BUSINESS  
ADMINISTRATION**

**SACRED HEART COLLEGE  
(AUTONOMOUS)**

**Tirupattur - 635 601, Tirupattur Dt,  
Tamil Nadu, India.**

**CERTIFICATE COURSE IN TOURISM STUDIES**

**02-02-2020 TO 29-02-2020**

**30 HOURS**





## **Semester - IV**

### **Certificate in Tourism Management**

#### **Unit - I**

Definition of tourism and the need for tourism. The birth, growth and development of tourism - factors influencing growth of tourism - tourism in India and abroad.

#### **Unit - II**

Tourism - planning - need for planning - government's role in planning - tourism under five year plans. Tourism marketing - concepts and importance - marketing functions in tourism - tourist marketing mix.

#### **Unit-III**

Tourism and culture - tourism and people: tourism and economic development - tourism and growth of related industry, tourism and employment.

#### **Unit - IV**

Tourism pricing - methods of pricing - tourism promotion - advertising costs - steps in planning an advertising campaign - tourist publicity.

#### **Unit-V**

Tourism and government administrative systems - ministry of tourism - department of tourism - Indian tourism development corporation - world tourism organization - travel agents in India.

#### **Reference Books**

1. Tourism and hotel industry in India - Anand M.M.
  2. Perspectives of Indian Tourism in India - Clib SN.
  3. Successful tourism management - Pran Nath Seth.
  4. The management of tourism - Bukart A J.
  5. The social implications of tourism development - Butler R W
-

**PG and Research Department of Mathematics**  
**Sacred Heart College (Autonomous), Tirupattur**

Dear Students,

The department is planning to organize a certificate programme on “*LaTeX for Mathematics*” during the month of October, 2019.

**Total course duration:** 30 hours

**About the Course:** LaTeX is a very well developed typesetting program and is an extension of the original program TEX written by Donald Knuth. Donald Knuth says that his aim in creating TEX is to beautifully typeset technical documents especially those containing a lot of Mathematics. Since now a days, mathematics is very widely use in all branches of science, economics, commerce, so this typesetting program will definitely help students in their future work. Complex mathematical formulas can be difficult, sometimes not impossible, to generate using a standard word processor. If you want your document to look very nice, even if it's just ordinary text, LaTeX is the natural option. This is an excellent introductory course to acquaint students with the latest typesetting skills which will enable them to prepare high quality typesetting, beamer presentation.

**Objective:** To create understanding of LaTeX and to develop proficiency in documentation skill.

**Learning Outcomes:** The student will be able to learn the followings, after completing this course

- i) To create a LaTeX document.
- ii) Typeset a mathematical document using LaTeX.
- iii) Learn about graphics in LaTeX.
- iv) Create beamer presentations.

Course Coordinators

**Dr. G. Britto Antony Xavier**

**Dr. S.U. Vasanthakumar**

Head of the Department

**Dr. A. George Maria Selvam**

## Certificate Programme – LaTeX for Mathematics

Code: M9XX

Year/Semester: II / III

Credits: 2\*

Hours: 30/Sem

**Objective:** To train students in the preparation of projects and dissertations using LaTeX.

### **Unit – I: Basic Document and Bibliography**

What is LATEX – Simple typesetting – Fonts Type size – Document class – page style – page numbering – Formatting lengths – parts of a document – Dividing the document – what next? – Introduction – natbib – The BIBTEX program – BIBTEX Style files – Creating a bibliographic database.

(Chapters 1 - 4)

### **Unit - II: Contents, Index, Glossary, Text, Row and Column**

Table of contents – Index – Glossary. Borrowed words – Poetry in typing – Making lists – When order matters – Description and definitions.

(Chapters 5 - 7)

### **Unit – III: Typesetting Equations and Theorems**

Keeping tabs – Tables – The basics – Custom commands – More on mathematics – mathematics miscellany – New operations– The many fact of mathematics – Symbols – Theory in LATEX – Designer theorem-the amsthm package – Housekeeping.

(Chapters 8 - 9)

### **Unit - IV: Several Kinds of boxes and Floats**

LR boxes – Paragraph boxes – Paragraph boxes with specific height – Nested boxes – Role boxes – The figure environment – The table environment.

(Chapters 10 - 11)

### **Unit – V: Cross References in LATEX, Footnotes, Margin pars and Endnotes**

Why cross reference? – Let LATEX do it – Pointing to a page-the package varioref – Pointing outside-the package xr – Lost the keys? Use lables.tex – Footnotes – Marginal notes – Endnotes.

(Chapters 12 - 13)

### **Book for Study**

1. A Primer, *Latex Tutorials*, Indian TEX users group, Trivandrum, India. [www.tug.org.in](http://www.tug.org.in)

### **Books for Reference**

1. Peter Flynn, *A beginner's introduction to typesetting with LATEX*, Silmaril Consultants, Textual Therapy Division, 2003.
2. George Gratzer, *More Math into LATEX*, 4th Edition, Springer Science, 2007.
3. Frank Mittelbach, Michel Goossens, *The LaTeX Companion*, Second Edition, Addison-Wesley, 2004.
4. Apostolos Syropoulos, Antonis Tsolomitis, Nick Sofroniou, *Digital Typography using Latex*, With 68 Illustrations, Springer-Verlag, 2003.

5. Dr Helmut Kopka, Dr Patrick Daly, *A Guide to Latex: Document preparation for beginners and advanced users*, Addison Wesley; 3rd edition (4 January 1999)

## Course Learning Outcomes

This course will enable the students to:

- prepare documents with paragraphs and sections
- insert mathematical expressions and numbered equations
- format theorems, tables and figures
- organize chapters in the preparation of projects
- prepare and publish research articles.

**E Learning Resources:** <https://www.latex-tutorial.com/tutorials/>

<https://www.tug.org/twg/mactex/tutorials/ltxprimer-1.0.pdf>

<https://www.latex-tutorial.com>

<http://www.tug.org.in/tutorials.html>

<https://miktex.org/>

<http://www.docs.is.ed.ac.uk/skills/documents/3722/3722-2014.pdf>

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<https://www.tug.org/twg/mactex/tutorials/ltxprimer-1.0.pdf>  
<https://www.latex-tutorial.com>  
<http://www.tug.org.in/tutorials.html>  
<https://miktex.org/>  
<http://www.docs.is.ed.ac.uk/skills/documents/3722/3722-2014.pdf>



20/2/2023

From

**Dr. R.K. Vimal Nandhan**

Managing Director

VIS Skill Training Academy

Official Master Tally Training and Assessment Partner for TEPL

To

**The Principal**

Sacred Heart College (Autonomous), Tiruppattur, Tamil Nadu

**Subject: To conduct TALLY training program for your college students**

Dear Sir,

Greetings from VIS Skill Training Academy!

We VIS Skill Training Academy, is an Official authorized Master Tally Training and Assessment Partner for Tally Education Pvt. Ltd. (TEPL)., Bangalore.

We have No.1 Tally trainers as we offer to bridge the existing gap between education and employment by empowering our students through delivery of high-quality training using industry-relevant course content, scientifically designed teaching methodology, online assessments, certification & Placement.

VIS Skill Training Academy is collaborating with various universities, colleges as well as vocational players to provide job ready skills to youth.

### **Benefits to the College**

- **FREE LATEST TALLY SOFTWARE Multi-user (50 nos.) for 1 Year**
- **TALLY Accreditation** for your Computer Lab with **Display Board**
- Your institution will be listed in **TEPL website** as an official Tally Course provider.
- **Placement** Support activities for certified candidates
- Can utilize our association for **NAAC** and other accreditation purposes
- Your college can make **Public Announcement** about the association

### **How our association can help faculties?**

- Periodic Seminars/ Newsletters on latest updates in the field of Accounts and Finance
- Priority and preference given when Faculty Developments Programs are conducted
- Allowance given to faculties when they wanted to get certification in any of the Tally certification programs
- Faculties can invite the Tally Institute officials for student development activities





## Details of the Program

Program : TALLY PRIME Essential with GST  
Duration : 40~50 hrs  
No. of Students : Minimum of 50 students per Batch

What student gets :  
1) Theory Classes and Practical Training  
2) Study Materials  
3) Student Login for TALLY study materials  
4) Lifetime Job Portal Access & Placement Support  
5) Mock Assessment  
6) Online Assessment directly from TEPL., Bangalore  
7) CERTIFICATE from Tally Education Pvt Ltd, Bangalore

Course Fee : Rs.2500/- + 18% GST (Rs. 450) = Rs 2950 per candidate

## Our Responsibilities

- Trainers with minimum qualification of Graduation with Tally Professional Qualification
- Certification from Tally Education Pvt Ltd. (Tally Institute of Learning- TIL)
- Quality of Training

I am sure that this proposal is in line with your expectation. Madam, we look forward to a Long-Term Association with your Esteemed Institution.

For any clarification, Please feel free to contact Mr. M. Satish Kumar, Manager, VIS Skill Training @ 75488 58667.

Thanking You

Yours Truly,

**Dr. R.K. Vimal Nandhan**  
Managing Director  
VIS Skill Training Academy



*Tally*

POWER OF SIMPLICITY



# TALLY.ERP 9 WITH GST

**CSC**

**COMPUTER SOFTWARE COLLEGE**

An ISO 9001 : 2015 Certified Institution

Chapter	Headings	Page Nos.
<b>1.</b>	<b>Introduction to Accounting &amp; Tally</b>	
1.1	Need for an accounting System	I-1
1.2	Definition for accounting	I-1
1.3	Concepts and Conventions	I-2
1.4	Journalising Transactions	I-4
1.5	Posting to Ledgers	I-9
1.6	Preparation of Trial Balance	I-13
1.7	Preparation of Financial Statements	I-13
1.8	Manual Vs Computerised Accounting	I-14
1.9	Accounting Softwares	I-16
<b>2.</b>	<b>Getting Started</b>	
2.1	Log on	II-1
2.2	Tally Screen Elements	II-2
2.3	Log out	II-5
<b>3.</b>	<b>Company Info &amp; Features</b>	
3.1	Company Creation	III-1
3.2	Setting Features	III-4
3.3	Shut down Company	III-9
3.4	Selection of Company	III-9
3.5	Handling more Companies	III-9
3.6	Alteration of Company	III-11
3.7	Deleting Company	III-12
<b>4.</b>	<b>Accounts Info</b>	
4.1	Groups	IV-1
4.2	Ledgers	IV-8
4.3	Chart of Accounts	IV-11
4.4	Incorporation of Opening Balances	IV-12
<b>5.</b>	<b>Inventory Info</b>	
5.1	Stock Groups	V-1
5.2	Stock Categories	V-3
5.3	Godowns	V-4
5.4	Unit of Measure	V-6
5.5	Stock Items	V-7
5.6	Chart(s) of Inventory	V-9
5.7	Incorporation of Opening Stock	V-9
5.8	Integration of accounts with inventory	V-10

Chapter	Headings	Page Nos.
<b>6.</b>	<b>Voucher Entry</b>	
6.1	Accounting Vouchers	VI-1
6.2	Inventory Vouchers	VI-8
6.3	Display of Voucher	VI-12
6.4	Alteration of Voucher	VI-12
6.5	Cancellation of Voucher	VI-12
6.6	Deletion of Voucher	VI-13
6.7	Adding / Inserting Vouchers	VI-13
<b>7.</b>	<b>Display &amp; Configuration</b>	
7.1	Configuration	VII-1
7.2	Display of accounting books & reports	VII-2
7.3	Display of Inventory books & reports	VII-8
7.4	Filtered Reports	VII-11
<b>8.</b>	<b>Printing</b>	
8.1	Printing report generation	VIII-1
8.2	Print settings	VIII-3
8.3	Printing vouchers	VIII-9
<b>9.</b>	<b>Bill Wise Details</b>	
9.1	Enabling 'Bill wise Details' Feature	IX-1
9.2	Enabling Feature in Ledger	IX-2
9.3	Entering or Adjusting bill details in Vouchers	IX-4
9.4	Display of Bill wise Detail Reports	IX-8
9.5	Printing Bill wise Details	IX-11
9.6	Applying bill details feature to non-trading accounts	IX-13
9.7	Usage of Post Dated Voucher	IX-14
<b>10.</b>	<b>Goods and Service Tax (GST)</b>	
10.1	GST Concepts	X-1
10.2	Enabling GST	X-5
10.3	Configuring Master with GST details	X-8
10.4	GST Vouchers - Inward supplies	X-10
10.5	GST Vouchers - Outward supplies	X-14
10.6	GST Reports	X-18
<b>11.</b>	<b>Tax Deducted at Source</b>	
11.1	Setting up TDS features	XI-2
11.2	Creation of Ledgers and input of TDS details	XI-3
11.3	Entering Vouchers	XI-4
11.4	Display of TDS reports	XI-9
11.5	Remittance of TDS	XI-11
11.6	Printing Form 16A	XI-13
11.7	Filing Returns - Manual and e>Returns	XI-14

# ***Sacred Heart College (Autonomous)***

***Tirupattur, Tirupattur District – 635 601***

Accredited By NAAC(4<sup>th</sup> Cycle – under RAF) With CGPA of 3.31/4 at 'A+' Grade



**PG DEPARTMENT of COMPUTER Science**

**ORGANIZES**

**9 AM**

**To**

**5 PM**

**30**

**Hours**

**Certificate Course on  
Angular JS**

17-02-2020

TO

24-02-2020

**Resource Person**

Prof. Antony Philomen Raj,  
Assistant Professor,  
Department of MCA,  
Sacred Heart College,  
Tirupattur

PLACEMENT CELL IN-CHARGE

PROF. M. POOVIZHI



**II<sup>nd</sup> M.sc CS**

# Angular JS Syllabus

## Introduction

- Introduction to AngularJS
- MVC Architecture
- Conceptual Overview
- Setting up the Environment
- First Application
- Understanding ng attributes

## Expressions and Data Biding

- Number and String Expressions
- Object Binding and Expressions
- Working with Arrays
- Forgiving Behavior
- Understanding Data binding

## Working with Directives

- Conditional Directives
- Styles Directives
- Mouse and Keyboard Events Directives

## Controllers

- Understanding Controllers
- Programming Controllers & \$scope object
- Adding Behavior to a Scope Object
- Passing Parameters to the Methods
- Having Array as members in Controller Scope.

Nested Controllers and Scope Inheritance.

Multiple Controllers and their scopes

## **Filters**

Built-In Filters

Uppercase and Lowercase Filters

Currency and Number Formatting Filters

OrderBy Filter

## **Forms**

Using Simple Form

Working with Select and Options

Input Validations

Using CSS classes

Form Events

Custom Model update triggers

Custom Validations