Department of Computer Science

Annual Report
2013~14

St. Joseph's Degree & PG College
King Koti, Hyderabad

CONTENTS

1. Bridge Courses

        The Dept of Computer Science conducted a bridge course for all first year courses (B.Sc/B.Com/B.A/BBA) on 29th July 2013 to analyze their level of understanding the subject before we start our curriculum and fulfill the gaps between the subject related queries.

2. Club Activities

Club Activity 1:

Date: **11/9/2013**

Name of the Activity	:	**Club Activity**
Nature of the Activity	:	Student Centric
Incharge/Coordinator	:	Mrs. Esther Ratna
Date	:	11/9/2013
Title	:	**Tomcat web server & application deployment**
Venue	:	MCA LAB
Target Group	:	All streams of B.Sc, BBA & B.Com
No. of Participants	:	25
Resource Person & Organization	:	Ms. V Shailaja, Asst.prof, Computer Science Department St. Joseph's Degree & PG College

Objective:
    1) Installation of Tomcat Server
    2) Deployment of web application in Tomcat server

About the Activity:
        Tomcat server is a web server as a local server. We gave knowledge about how to install and how to deploy the web application projects in server.

Feedback:
Students had learnt web server concepts with hands on experience.

Club Activity 2:

Date: 11/12/2013

Nature of the Activity	:	Student Centric
Incharge/Coordinator	:	V shailaja, Dept. of Computer Science
Date	:	11/12/2013
Title	:	**Cloud Computing**
Venue	:	MCA LAB
Target Group	:	All streams of B.Sc, BBA & B.Com
No. of Participants	:	45
Resource Person & Organization:		Mr. Sridhar, Jetking Networking pvt Ltd

Objective:
    Learning New Technology-Cloud Computing: Internet Computing, On-demand services such as SAAS, PAAS, and IAAS etc.

About the Activity:
Presented video on virtualization and cloud computing applications.

Feedback:
It was very informative and students participated actively.

3. SEMINARS

A Seminar on "Web Portal Development"

Resource Person   **:**   **Mr. Azar**
                              Training Manager
                              Empower Labs Pvt Ltd, Bangalore
Participants   :   B.Sc III year students
Date   :   2nd June, 2013

Topic Covered
- Web Portal development using LifeRay Framework
- Open source enterprise solutions for portals, publishing content, and collaboration
- **Building a Seamless Ecosystem** – Web Services, SOA, ESB, Service Catalog, Migration
- **Collaborative Framework that unites Users (internal/external)** – SSO, LDAP, IDM, Dashboards, User Account/ Profile, Groups and Roles, WCM, White Labeling, Channel Partner Enablement.
- **Business Processes Workflow Integration** – JBPM5 based WFM, On-boarding, Provisioning Process, and Maintenance

A Seminar on "Cloud Computing"

Resource Person   **:**   Mrs. Vasavi, RCV Innovations Pvt.Ltd.
Participants   :   BSc III year students
Date   :   27th June, 2013

Topic Covered
Cloud computing describe a variety of different types of computing concepts that involve a large number of computers that are connected through a real-time communication network.

Services:

Cloud computing providers offer their services according to several fundamental models. The primary service models being deployed are :

- Software as a Service (SaaS)- information for the interaction between the consumer and the service is hosted as part of the service in the cloud.

- Platform as a Service (PaaS) — Consumers purchase access to the platforms, enabling them to deploy their own software and applications in the cloud.

- Infrastructure as a Service (IaaS) — Consumers control and manage the systems in terms of the operating systems, applications, storage, and network connectivity, but do not themselves control the

The cloud also focuses on maximizing the effectiveness of the shared resources. Cloud resources are usually not only shared by multiple users but as well as dynamically re-allocated as per demand.

End users access cloud-based applications through a web browser or a light-weight desktop or mobile app while the business software and user's data are stored on servers at a remote location.

Benefits: Cost Savings, Scalability/Flexibility, Reliability, Maintenance, Mobile Accessible

A Seminar on "Ethical Hacking"

Resource Person:
Mr. Sagar Gupta - B.Com (Gen) II yr

About the Resource Person:
Mr. Sagar Gupta of B.Com (Gen) II yr is interested and a professional ehacker & decoder. His hobbies are painting & writing. His aim in life is to open a group of hotels around the world.

Participants   :   Degree students (All Groups)
Date   :   17th July, 2013

Topic   :   Ethical Hacking

Started in 1960 by Kevin Mintick from England by hacking NASA satellite and bearing a loss of 14million dollars. He was in jail for 2 years. Now he runs the world's biggest hacking school. Hacking is an illegal activity and once committed you get jailed for 5 years or more. Done by using software like spyware and Symantec in today's time

A Seminar on "Android"

Resource Person   **:**   Mr. Avinash, I-B.Com [C]
Participants   :   Degree students (All Groups)
Date   :   24th July, 2013
Topic   :   Android

Android is a leading mobile Operating System, which enables the user to interact with the phone much more conveniently with ease. Today Android has reached over 600 millions of users and one billion activations. A developer being a king of any eco-system provides opportunities for developers to put their ideas into apps. It is a Google mobile OS which adds a feather into the hat of Google, which is one of the leading companies internationally. It is convenient, cost effective and user friendly.

Seminar on "Building Research Capabilities":

Date: 26/9/2013

Name of the Activity	:	**Building Research Capabilities**
Nature of the Activity	:	Departmental
Incharge/Coordinator	:	Mr. M Joseph Rajakumar, HoD of Computer Science Department
Date	:	26/9/2013

Title	:	**Building Research Capabilities**

Venue	:	MCA LAB

Target Group	:

1) Faculty members of Computer Science Department.
2) Faculty members of Mathematics & Statistics Department.
3) Faculty members of Physics & Electronics Department.

No. of Participants	:	9

Resource Person & Organization	:	Mr. D.P Sharma, Dean Science, St. Joseph's Degree & PG College

Objective:

1) To create research capabilities among faculty members.
2) To encourage faculty members to produce research works in their area of concern.
3) To encourage faculty members to pursue high level research of international standard.

About the Activity:

1) Definition of research papers
2) Preparations to write research papers
3) Carrying the research and generalizing research outcomes
4) Culminating the research work into research papers
5) Getting the research paper published

Feedback:

Faculty appreciated the presentation given by the resource person and acquired the required skills for presenting papers at conference and journals.

Overview of Project Seminar:

Date: 25/11/2013

Nature of the Activity   :   Student Centric

In charge/Coordinator	:	Mr. M Joseph Rajakumar, and Collaboration with Science Department
Resource Person	:	A. Inna Reddy, Head, Department of Computer Science, City College, Hyderabad.
Date	:	25/11/2013
Title	:	**Seminar on Project Overview**
Venue	:	MCA Lab
Target Group	:	B. Sc Final year students
No. of Participants	:	55

Objective:

The objective of project work is to prepare the students for systematic independent study of the subject and make accurate use of concepts in the broad area of his / her specialization.

About the Activity:

Seminar included power point presentation where the resource person gave guidelines to the students on design of project, data collection, analysis and submission. He also referred the scope of various projects available to students.

Feedback:

It was very detailed lecture on Project life cycle. Students felt the importance of the project methodology and how to develop the projects

4. GUEST LECTURES

Guest Lecture 1:

Internal Guest Lecture on "Grid, cloud and E-commerce in Business"

Date: 7/12/2013

Name of the Activity	:	Internal Guest Lecture
Nature of the Activity	:	Student Centric
Incharge/Coordinator	:	Ms Preethi, Dept. of Management Studies
Resource Person	:	Mr. M Joseph Rajakumar, HoD of Computer Science Department
Date	:	14/12/2013
Title	:	**Grid, cloud and E-commerce in Business**
Venue	:	Seminar Hall I
Target Group	:	MBA I Year Students
No. of Participants	:	110

Objective:
Extension Lecture on usage of cloud and grid computing.
Applications of E-commerce in business.

About the Activity:
Grid Computing:
✓ A distributed computing system
✓ Virtualisation of resource
✓ Increase processing power
✓ Secure and flexible collaboration
✓ Allows a group of computers to share the system securely and optimizes their collective resources to meet required workloads

Cloud Computing:
- ✓ What is Cloud Computing
- ✓ Concept of Cloud Computing
- ✓ Advantages of Cloud Computing
- ✓ Limitation of Cloud Computing

E-commerce in Business:
- ✓ Types of E-commerce
- ✓ Applications of E-commerce

Feedback:
Participants interacted actively and they felt lecture gave in-depth knowledge in computing Technologies and applications of E-commerce

Guest Lecture 2:

External Guest Lecture on Software Engineering & Know your Technology

Date: 18/11/2013

Nature of the Activity	:	Student Centric
Resource Person	:	Mr. M Joseph Rajakumar, HoD of Computer Science Department
Date	:	18/11/2013
Title	:	**Software Engineering & Know your Technology**
Venue	:	Govt. City College, Hyderabad
Target Group students	:	Degree Science and Commerce
No. of Participants	:	100

Objective:
- To create awareness on recent trends and developments in IT
- Project awareness

About the Activity:
Understand the concept of the SDLC in software engineering.
- ✓ Development process, the waterfall and incremental models.
- ✓ Analysis phase
- ✓ Design phase
- ✓ Implementation phase
- ✓ Testing phase - Glass-box testing and black-box testing.
- ✓ Documentation

Feedback:
Excellent and outstanding guest lecture felt by the participants of Govt. City College

5. JOSEPHIESTA' 2014

Date: 01/02/2014

EVENTS

EVENT NAME	COORDINATOR
POST	Mrs.Madhuri Paul
JAM	Mrs.Kiran Jyothi Mrs. Sushma
PECHAN KAUN	Mr. Joseph Rajkumar Ms. Shailaja

EVENT DESCRIPTION

Pechan Kaun - PICTURE PERFECT
(Registration fees: 50 per team)

- Time duration: 1 hour.
- Round 1:
  - Participants are shown 10 pictures at a time.
  - Whoever remembers the maximum pictures will be selected for next round.
- Round 2: participant need to choose the number and identify the picture given for that   number.
- Round 3: participants are shown a picture or made to hear a audio clip and need to answer the questions related to it.

POST - (Presentation on Spot Theme)
(*Registration fees:-50/- per head)*

- DURATION : 10 min.(9+1)
- One hour will be given for preparing the presentation.
- Criteria for judging --Content clarity. Presentation, Communication, Time management.

JAM (JUST A MINUTE)

(Registration Fees: - 20/- per head)

- DURATION: 1min.
- Participants need to talk for a minute on the given topic.
- Criteria for judging --
  - Content clarity
  - Communication.
  - Presentation.
  - Time management (introduction, explanation, conclusion).

Winners List

JOSEPHIESTA PRIZE LIST					
EVENT NAME	**STUDENT NAME**	**COLLEGENAME**	**PRIZE**	**CORDINATOR**	**REWARD**
POST	Manisha Raj	St.Josephs Degree & Pg College	I	Mrs.Madhuri Paul	Momento + Certificate + 1500
JAM	Manisha Raj	St.Josephs Degree & Pg College	I	Mrs.Kiran Jyothi Mrs. Sushma	Momento + Certificate + 1500
	Akshay Kumar Singh	Bhavans College	I		Momento + Certificate
	Mirza Saad	IIMC	II		Momento + Certificate
PECHAN KAUN	Sameena	Vanitha Mahavidhyalaya	I	Mr. Rajkumar Ms. Shailaja	Momento + Certificate + 1500
	K Sai Krishan	MRCET	II		Momento + Certificate + 1000
	G Madhulika	Ams College Of Arts & Science	III		Momento + Certificate + 500

6. MILAN 2013 ~ Alumni Meet:

Date   :   17th Aug 2013

Venue   :   Joseph's Hall

Department Alumni Coordinators: Mr.Joseph Rajakumar & Mrs. M.Kiran Jyothi

Alumni Association Members:
- Mr. Brij Raj, Vice Chairman ,Alumni Association
- Mr. Kaushik Iyengar, Member Representative, Alumni Association.

       The alumni meet began at 3.30 p.m. The alumni where greeted by the principal and the faculty members. Nearly 300 alumni were present for the meet and 17 of them are from MCA. Alumni members who attended the meeting where well settled in different IT Companies like TCS,IBM, INFOSYS,WIPRO, etc. The alumni were happy to recollect and cherish wonderful moments in the college. They have promised to take active part in designing the curriculum and extending their support in placement related activities. The meet concluded at 6.00 p.m.

7. "Informatique Exhib"~ 2013 ~ A Computer Fair

Venue   :   Joseph's Hall

Date   :   27th Aug 2013

Time   :   9:00AM - 2:00PM

Organized by   :   **Department of Computer Science**

Target Group   :   I Year UG Students of B.Com (Gen), B.Com (Comp),
                               B.Com (Hons), B.Com(Prof), B.B.A,
                               B.Sc (M.P.Cs/M.E.Cs/M.S.Cs/NHAEM)

       The Inaugural session of the Computer Fair "Informatique Exhib" started by welcoming the dignitaries Rev.Fr.Vincent Arokiadas - Principal, Fr.Antony Sagayaraja ice-Principal,

Prof.Dr.K.Malla Reddy - Director, Mr. D.P Sharma - Dean of Sciences and Mr.M.Joseph Rajakumar-HoD of Computer Science onto the daise by Mrs. M. Kiran Jyothi.

- The opening prayer was offered by Fr. Antony Sagayaraja, Vice-Principal and continued with the lighting of the lamp by dignitaries.
- Rev.Fr.Vincent Arokiadas - Principal, addressed the gathering. He appreciated the participants and also the Dept. of Computer Science for conducting such an event.
- Mr.M.Joseph.Rajakumar quoted that this event enhances the students' knowledge beyond the curriculum.

30 teams from the first year students of B.Com (Gen), B.Com (Comp), B.Com (Hons), B.B.A, B.Sc (M.P.Cs/M.E.Cs/M.S.Cs/NHAEM) participated in this event.
The participants selected a device of the computer and prepared the following:
- A model of the device
- A chart explaining the parts of the device and working of the device or a presentation
- Some participants exhibited the working model.

All the first year UG students from all streams visited the event during their scheduled time and interacted positively and showed their curiosity and enthusiasm to learn more about the device. The staff and non-teaching staff also visited the event and gave their suggestions.

The Teams were judged by the following **judges**:
1. Mr.Bhaskar – Vice-Principal & HoD of Computer Science,
        Nrupatunga College, Kachiguda, Hyderabad
2. Mrs. Sujatha – HoD of Computer Science, Nizam College, Abids, Hyderabad.

Winners List:
All the participants were given a participation certificate and the winners will be awarded on the college annual day programme.

Prize	Team	Name	Device	Class
I	Team: 12	Sonu Sharma Jitesh pandey Namratha Jain	Motherboard	B.Com IH
II	Team: 3	Ankith Kumar,Sofia, Sultan Sadeeq Mohiuddin	Sensor Devices, Touchpad & Monitor	B.Com I C
III	Team: 11	Abhishek Jennis Nikhitha Jain	Motherboard	B.Com IA
III	Team: 17	Abdul Ateeq Urvashi Sharma Jai Sharma	Hard Disk	B.Com IA

Event Coordinators:

- Mrs.T.Esther Ratna, Asst.Prof, Dept. of Computer Science.
- Mrs. E. Sushma, Asst.Prof, Dept. of Computer Science.
- Ms. V. Sailaja, Asst.Prof, Dept. of Computer Science.

Vote of thanks was proposed by Mrs.T.Esther Ratna, Asst.Prof, Dept. of Computer Science by thanking the management, students, teaching and non-teaching staff to make this event a grand success.

Feedback:

A Feedback was taken from the audience. The parameters emphasized on the objective of the fair and a choice was given to vote for the best team.

- A very good response and the students have learned the concept practically.
- The students requested for many more such activities.
- A suggestion was given to extend the programme for outsiders which would also help in branding the college.

8. Faculty Development Programs

Faculty Development Program1:

Date: 06/9/2013

Name of the Activity   :   **ERP solutions for higher education & Research**

Nature of the Activity   :   Faculty Development Program

Incharge/Coordinator   :   Mr. M Joseph Rajakumar

Date   :   06/09/2013

Title   :   **Student Life Cycle Management (SLCM)**

Venue   :   Hyderabad Marriott Hotel & Convention Centre

Participants   :   Mr. M Joseph Rajakumar, Mrs. E Sushma, Ms. E. Flora Nishitha, Ms. V Shailaja

Resource Person & Organization :   SAP & SEAL InfoTech

Objective   :   SLCM solutions

About the Activity:
1) Streamline end-to-end student administration process.
2) Better control of finance and general administration.
3) Transparent and better-aligned teaching methods.
4) High visibility on student performance and progress.

Feedback:
     It was very informative and useful to participants

Faculty Upgradation Programm 2:

Date: **18/11/2013**

Nature of the Activity	:	FDP
In charge/Coordinator	:	Mr. M Joseph Rajakumar, HoD of Computer Science
Resource Person	:	Mr. Alok Kumar Singh, Impact Education- ABA, Secunderabad
Date	:	From18/11/2013 to 25/11/2013
Title	:	**E-Commerce**
Venue	:	MCA Lab
Target Group	:	B. Sc Final year students
No. of Participants	:	55

Objective:

The objective of project work is to prepare the students for systematic independent study of the subject and make accurate use of concepts in the broad area of his / her specialization.

About the Activity:

Seminar included power point presentation where the resource person gave guidelines to the students on design of project, data collection, analysis and submission. He also referred the scope of various projects available to students.

Feedback:
It was very detailed lecture on Project life cycle. Students felt the importance of the project methodology and how to develop the projects

9. Faculty Paper Presentations/Seminars Attended Programmes:

- Ms. Flora Nishitha and Ms. V. Shailaja along with 2 other faculty attended a one day FDP **"Effective Methods of Teaching for Women Faculty"** organized by Osmania University, Hyderabad dated on 8th Mar 2014.

- Mr. Joseph Rajkumar attended a two day "**National Conference on Computer Networks and Information Security (NCCNIS'14)"** organized by Dept. of IT, Vasavi College of Engineering, Hyderabad dated on 5th & 6th Mar 2014. He also presented a paper on "High Level Treatment of Computer Network Security and Information Protection System in Business**"** and been issued the **ISBN:978-93-82570-23-3-46**

- Mrs. P. Madhuri Paul attended a two day "**National Conference on Computer Networks and Information Security (NCCNIS'14)"** organized by Dept. of IT, Vasavi College of Engineering, Hyderabad dated on 5th & 6th Mar 2014. She also presented a paper on "Intelligent Multimedia Security Systems**"** and been issued the **ISBN: 978-93-82570-23-3-25**

- Mr. M.Joseph Rajakumar, HOD, Dept. of Computer Science gave an Internal guest lecture on **"Mobile Computing"**for all three years students of B.Sc of our college on 18th January 2014.

- Mr. M.Joseph Rajakumar, HOD, Dept. of Computer Science gave an Internal guest lecture on **"Cloud Computing & E-Commerce"** for MBA Ist year students of our college on 14th December 2013.

- Mr. M. Joseph Rajakumar, HoD, Computer Science has given a guest lecture on "Software Engineering and Know your Technology" to the students of **Govt. City College**, Hyderabad on 27-11-2013.

- Mr. M. Joseph Rajakumar,HoD and Mrs. E Sushma,faculty of Computer Science Department presented a paper on "**Challenges and opportunities of Big Data Analytics in Business applications"** in National Conference on**"Research Trends in Computer Science & Technology"** dated 16th November 2013 at CMR College of Engineering & Technology, Hyderabad and also been issued the **ISBN: 978-81-92349-0-6**

- Mrs. Esther Ratna attended a two day "**International Conference on Recent Trends in Computer Applications(ICRTiCA'13)"** organized by Dept. of Computer Science, Hindustan College of Arts & Science, Kalambakkam, Chennai dated on 27th & 28th Sep 2013. She also presented a paper on "**Biomolecular Computing - A Conceptual Overview"** and been issued the **ISBN: 978-93-81208-25-0.**

- Mr. M. Joseph Rajakumar, Mrs. E Sushma, Ms. Flora Nishitha, Ms. V Shailaja attended a workshop on "ERP Solutions for higher education & research " organized by SAP & SEAL INFOTECH,Marriott Hotel,Hyderabad on 6th September 2013

10. Paper Setters:

1) **Mrs. E Sushma** - Modern DBMS(B.Sc)
2) **Mr. M Joseph Rajakumar**-
   a) Designing Visual Web using ASP.Net (B.Com Computers)
   b) ASP.Net (B.Com (Honors))

11. Awards/Rewards:

1) Mrs. E Sushma of Computer Science department awarded the rolling shields for the month of August for being punctual and regular to college.
2) The Department of Computer Science received "The Best Event" for organizes the Informatique Exhib in the month of August.

12. Joseph's Social Service (JSS):

Date: **11/01/2014**

Name of the Activity	:	Josephs Social Service
Nature of the Activity	:	Student centric
Incharge/Coordinator	:	Mr. M Joseph Rajakumar & Ms. V Shailaja
Date	:	11/01/2014
Title	:	Josephs Social Service
Venue	:	Gracious Paradise Foundations
Target Group	:	All B.Sc I year and II years students

No. of Participants : 155

Objective : Social Concern

About the Activity :
  ✓ Distribution of gifts items(soups, soup boxes, tooth brush, new clothes)
  ✓ Provided lunch and snacks to the inmates
  ✓ Conducted singing and dance competition
  ✓ Conducted Drawings competitions

Feedback :
  ✓ Students actively participated in conducting various events to the inmates and distributed prizes for the winners.
  ✓ Inmates felt very happy and they also enjoyed a lot.

13. Certificate courses

I. **Microsoft Office Specialist Certificate Program**

Aim: The Microsoft Certification program provides an edge to the Students who look for Career immediately after their graduation and those who head for Post-Graduate Program in abroad.

Program Structure:
- ✓ Microsoft Technology Associates (MTA)
- ✓ Microsoft Office Specialist (MOS)

Syllabus:
- ✓ Creating, Managing, Navigating, and Formatting Worksheets and Workbooks
- ✓ Worksheet and Workbook Customization and Views
- ✓ Printing and Saving Workbooks
- ✓ Inserting and formatting cells and ranges
- ✓ Ordering and Grouping Cells and Ranges
- ✓ Creating, Modifying, Filtering, and Sorting Tables
- ✓ Working and Summarizing Data with Formulas and Functions
- ✓ Using Conditional Logic
- ✓ Formatting and Modifying Text with Functions
- ✓ Creating and Formatting Charts
- ✓ Inserting and Formatting Objects

Duration: 6 days training (2hrs per day) & a day for mock test followed by Online-Exam through Microsoft Website

Course Fee: Rs. 2000/- (which includes Training and Online Fee payment for the module *MOS- Excel only*)

Batch Size: Minimum of 30 students

Training will be provided by Microsoft Certified Professional from Pixa Core

Note: For full Microsoft Certification roadmaps, visit http://microsoft.com /learning/certification

Course Coordinator: M. Joseph Rajakumar & Mrs. Sushma

II. BSNL Certified Network Engineer

Course Duration: One Month (Four weeks) of theoretical and practical training in Regional Telecom Training Centre (RTTC)

Course Highlights

1. A unique industry oriented academic initiative
2. Lectures from renowned field and subject matter experts
3. Different from present conventional teaching methods
4. Participants will become job ready from the day one after the training
5. Practical hands-on on Routers
6. Network Planning Aspects

Course Fee

Registration Fee: Rs.500 /-

Course Fee: Rs.5990 + Service Tax (12.36%) [Non-Refundable]

- Basic Concepts of Data Communication
- ISO OSI reference Model
- LAN Topologies & Network Elements
- Practical- LAN Implementation
- IPV4 addressing
- VLSM, CIDR VLSM Design examples
- Practical - VLSM, CIDR VLSM Design examples
- TCP/IP Protocol Suite
- Introduction to Routers (Hardware & software)
- Practical – Introduction to Routers (Hardware & software)
- Initial Configuration of Cisco Router
- Practical - Initial Configuration of Cisco Router
- IP Routing Concepts, Static, Default Routing
- Practical - IP Routing Concepts, Static, Default Routing

Assessment criteria

1. Candidates undergoing this course should clear all the Four Weekly assessment tests conducted during the course to secure the certification from RTTC, BSNL.

2. Candidates will be awarded grades in the certification based upon their performance in the exams conducted by RTTC
     a. Grade A+ - 90% & above marks
     b. Grade A - 80% - 90%

c. Grade B+- 70% - 80%
d. Grade B - 60% - 70%
e. Grade C - 50% - 60%
f. Failed - Below 50%

3. Candidates who obtain below 50% of average marks in the tests will be given only one additional chance to reappear for the test.

4. If the candidates fail in the re-examination, they will not be awarded the certificate under any case.

Coordinators: **Resource persons:**

Mrs. P. Madhuri Paul   **RTTC, BSNL**
                                                          Gachibowli, Hyderabad

III. Basic Hardware & Network Technology

Aim: This course will give students who aspire for innovation and self-employability through a broad overview of computer hardware, information about System Boards and trouble shooting of basic hardware components.

Duration: 50 Hours   *Fee: Rs 1500/-*

Resource Persons
1. M. Joseph Rajakumar
2. Mr. Bernard (Electrician)
3. Mr. Pavan
4. Mr.Aloysius
5. Mr. Lokiah

Syllabus:
- Electrical fundamentals
- Basic Electricals
- Domestic Electrical device trouble shooting
- Earth and Main distribution
- Identify potential hazards and safety procedures.
- Procedures for device installation and configuration
- Identify peripheral ports, associated cabling, and their connectors
- Basic hardware - methods of upgrading system performance
- Troubleshooting & Preventive maintenance procedures
- Assembling computer

- Networking fundamentals configuration and installation
- Identify network terminology
- Hardware and software installation
- Network configuration and installation

Course Coordinators: M. Joseph Rajakumar & Mr. Aloysius
a. Curriculum design
b. Promotion
c. Organized the entire course
d. Conduct of test and evaluation
e. Issue of certification

IV. Dynamic Website Development

Aim: This course will give students opportunity to develop personal website and self-employability

Duration: 50 Hours　　　　　　　　　　　　　***Fee: Rs 1000/-***

Syllabus
1. Intro
   a. The Internet, the Web, and HTML
   b. Browsers
   c. Web Standards
   d. What is IP address?
   e. TCP/IP
2. Web Page Building Blocks
   a. Markup: Elements, Tags, Attributes, and Values
   b. Textual Tags
   c. Marquee text with or without background, Blink the text attributes
   d. Divide section using <HR> line with width, align, size
   e. HTML vs. XHTML
   f. Using Stylesheets
   g. Formatting with Stylesheets
   h. DIV
3. Working with Web Page Files
   a. Microsoft Word
   b. Using Adobe Dreamweaver 8
   c. Templates
   d. Organizing Files
4. Links

a. Absolute vs. Referenced
b. Anchors

       Linking with text
       Links with images

c. Internal Links
d. External Links
e. Email Link
f. Styling Links
g. Image Maps.

5. Lists
    a. Unordered, Ordered
    b. Nested lists
    c. Styling Lists
6. Frames
    a. vertical frames
    b. Horizontal frames
    c. creating links and images.
7. Tables
    a. Creation
    b. Formatting Tables
    c. Table properties
8. Forms
    a. Input fields
        i. Text box
        ii. Password
        iii. Button
        iv. Drop down list box
        v. Radio button
        vi. Check boxes
        vii. Text area
    b. Submit /reset button
    c. Methods post/get

9. Creating Web Images
    a. Using Adobe Photoshop CS
        i. Creating Documents
        ii. Tools and Functions
        iii. Media Design
        iv. Template Design
        v. Optimizing Images for the Web
    b. Using Adobe Fireworks 8
    c. Using Picasa.

10. Back End Management
   a. File Management
   b. Hosting
   c. FTPing
   d. Publishing your website

11. Advanced Stylesheets
   a. The Box Model
   b. Containers
   c. Rules
   d. Positioning in CSS
   e. Navigation
12. Multimedia: Adobe Flash 8
   i. Creating Documents
   ii. Tools and Functions
   iii. Optimizing Files for the Web
13. Scripts
   a. Java Script
   b. PHP
   c. Action Script

14. Creating free website
15. Creating blogs.

Resource persons	Topics Handled
Mrs. Madhuri Paul	Chapters 1 to 4
Ms. V Shailaja	Chapters 5 to 9
Mr. M Joseph Rajakumar	Chapters 10 to 15

Course Coordinators:

Mrs Madhuri paul, Ms. Shailaja & Mr. M Joseph Rajakumar