

SRI RAMAKRISHNA MISSION VIDYALAYA
COLLEGE OF ARTS AND SCIENCE
(Re-accredited By NAAC with 'A' Grade)
(Autonomous), Coimbatore – 20.

Department of Computer Science,
Computer Applications & Information Technology

Organizes



Student Knowledge Enrichment Course on
Internet of Things – (Phase-I) Report
(Residential Winter Course)

30-11-2017 to 04-12-2017



“Take up one idea. Make that one idea your life; dream of it; think of it; live on that idea. Let the brain, the body, muscles, muscles, nerves, nerves, every part of your body be full of that idea, and just leave every other idea alone. This is the way to success, and this is the way great spiritual giants are produced.”

– **Swami Vivekananda**



For Further Details

Co-ordinator

Sri. M. Jaikumar
Head of the Department,
Department of Information Technology
SRMV CAS, Coimbatore - 641020

Instructors Support

Easy Designs Systems Pvt Limited
Coimbatore - 641020



Sri Ramakrishna Mission Vidyalaya College of Arts and Science

(An Autonomous Institution Affiliated to Bharathiar University,
Re-accredited by NAAC with 'A' Grade)
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Department of Computer Applications
Organizes

Student Knowledge Enrichment Course on

**Internet of Things
Phase - I**

Venue: **SRMV CAS (SF Wing)**

Date: **30.11.2017 to
04.12.2017**

ABOUT US

Ramakrishna Mission Vidyalaya, Coimbatore, is a vast complex of 18 service wings, commenced its educational activities in the year 1930 with the blessing of Bhagavan Sri Ramakrishna. The father of our Nation, Mahatma Gandhi laid the foundation stone of the first wing, a school.

Ayya Sri T.S. Avinashilingam, the Founder-Director, nurtured the institution with his visionary and devoted service. As envisaged by the great Swami Vivekananda, the Vidyalaya strives hard to impart man-making and character-building education to youth, that are necessary to develop leadership, responsibility and love for the country.

ABOUT OUR COLLEGE

Our college was started in the year 1964. Affiliated to the Bharathiar University, it was conferred with autonomous status in the year 1981-82. The college offers 13 UG and 6 PG programmes in both aided and unaided streams, besides offering 9 MPhil and PhD programmes. It was Re-accredited by NAAC with 'A' grade.

ABOUT THE DEPARTMENT

The School of Computer Studies constitute of B.Sc(CS), BCA, MCA and B.Sc(IT).

The team of faculties comprises of skilled and motivated persons, having meritorious academic track record with excellent interpersonal and intrapersonal skills.

The Departments is equipped with spacious laboratories and sufficient time for conducting various certification courses like CCNA of CISCO, Hardware & Networking, Multimedia, Web Services, Big Data of DELL EMC and IoT of EASY Design Systems.

OBJECTIVES OF THE COURSE

The Internet of Things (IoT) produces massive quantities of data, such as streaming data, time-series data, RFID data, and sensory data, among other things. Many tedious challenges arise as a result of the Internet of Things, especially in the field of database management systems, such as integrating massive amounts of data in real-time, processing events as they occur, and coping with data protection. Main objective of this course is to learn the IoT related database applications.

By the end of the course, students will be able to:

- ❖ Work with database applications for IoT devices.
- ❖ Know SQL and Angular JS programming concept for storing data from IoT sensors.
- ❖ Explain how an IoT device accesses data in local and remote resources through sensors.
- ❖ Know the skills on specific hardware and software used in the development of IoT devices.
- ❖ Know Arduino, Raspberry Pi & Wireless Modules used in IoT devices for a small to medium-sized business.
- ❖ Know IoT Interface components.

Other Course Offered

- ❖ IT Essential Course
- ❖ Routing and Switching Essential
- ❖ Oracle Certification



Easy Design
Solutions

Sri Ramakrishna Mission Vidyalaya College of Arts and Science
Curriculum

| S.No | Contents |
|------|---|
| 1 | Working with Enterprise database Layer |
| | Understanding and using RDBMS data |
| | Working with Microsoft SQL Server |
| | Working with connected data and disconnected data |
| 2 | Working with IO and File based Db for efficient and isolated data handling |
| | Understanding the file IO with VB.NET / C#.NET- Working with CSV files |
| | Working with file based data bases using SQLite. |
| 3 | Working with Web Services for building communication and storage layer |
| | Understanding the data capture through Web Services |
| | Creating and Programing a rest web service with ASP.NET |
| 4 | Web Server Programming |
| | Basics of Web Server Programming |
| | Understanding MVC |
| | Working With Visual Studio |
| 5 | Writing an MVC Service |
| | Creating a Data Entity |
| | Creating a Model and Controller |
| 6 | Integrating With Web Service Layer |
| | Integrating with Http Request |
| | Understanding JSON Data |

Mentored by

EASY
DESIGN SYSTEMS

