## ANNAMACHARYA INSTITUTE OF TECNOLOGY AND SCIENCES: RAJAMPET (AUTONOMOUS)

## **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

# Notice for Enrollment to Value Added Course

Convener:

Dr. A.Subramanyam, HOD, Dept. Of CSE

Coordinator:

Mr. G. Surya Narayana

Course Name:

**Big Data** 

Resource Persons: J.Maruthi Nagendra Prasad

Target Students:

IV Year CSE students

Course Commencement from: July 5th 2014

No of Contact hours: 40

Registration:

Interested candidates can register to the workshop by enrolling

their names to Resource Persons.

Last date for the registration is 2<sup>nd</sup> July 2014

# **Prerequisite:**

This course has no specific prerequisites. However some familiarities with the following are especially helpful.

DBMS,JAVA

### **BIG DATA AND DATA ANALYTICS**

(Value Added Course) Syllabus

#### Unit-I

**INTRODUCTION TO BIG DATA:** What is Big Data, Why Big Data Matters, Big Data Sources, Evaluation of Big Data, The nuts and bolts of Big Data, Best Practices for Big data analytics.

#### Unit-II

**MapReduce**: Analyzing the Data with UNIX Tools, Analyzing the Data with Hadoop, Scaling Out, Hadoop Streaming, Hadoop Distributed File system.

**HADOOP I/O:** Data Integrity, Compression, Serialization, File-Based Data Structures.

#### Unit-III

**Developing a MapReduce Application**: The Configuration API, Configuring the Development Environment, Writing a Unit Test, Running Locally on Test Data, Running on a Cluster, Tuning a Job, MapReduce Workflows.

#### **Unit-IV**

**How MapReduce Works**: Anatomy of a MapReduce Job Run, Failures, Shuffle and Sort, Task Execution.

MapReduce Types and Formats: MapReduce Types, Input Formats, Output Formats.

#### Unit-V

**MapReduce Features:** Counters, Sorting, Joins, Side Data Distribution, MapReduce Library Classes.

**Setting Up a Hadoop Cluster**: Cluster Specification, Cluster Setup and Installation, SSH Configuration, Hadoop Configuration, Security, Benchmarking a Hadoop Cluster.

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# ANNAMACHARYA INSTITUTE OF TECNOLOGY AND SCIENCES: RAJAMPET (AUTONOMOUS)

### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

# Notice for Enrollment to Value Added Course

Convener:

Dr. A.Subramanyam, HOD, Dept. Of CSE

Coordinator:

J.Maruthi Nagendra Prasad

Course Name:

Node JS

Resource Persons: Mr. K. Uday Kumar Reddy

Target Students:

III Year CSE students

Course Commencement from: July 12th 2014

No of Contact hours: 40

Registration:

Interested candidates can register to the workshop by enrolling

their names to Resource Persons.

Last date for the registration is 7th July 2014

# Prerequisite:

This course has no specific prerequisites. However some familiarities with the following are especially helpful.

Web Programming

Computer Science & Engineering
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#### Node JS

#### (Value Added Course)

### Syllabus

#### **UNIT-I**

**Introduction to Node JS** –Introduction, What is Node JS, Advantages of Node JS, Traditional Web Server Model

Node.js Process Model

Setup Dev Environment -Install Node.js on Windows, Working in REPL, Node JS Console

#### **UNIT-II**

**Node JS Modules -**Functions, Buffer, Module, Module Types, Core Modules, Local Modules, Module. Exports

**Node Package Manager -**What is NPM, Installing Packages Locally, Adding dependency in package, installing packages globally, updating packages

#### **UNIT-III**

Creating Web server, Handling http requests, Sending requests

#### **UNIT-IV**

**File System -**Fs. Read File, Writing a File, Writing a file asynchronously, Opening a file, deleting a file, Other IO Operations

Debugging Node JS Application -Core Node JS debugger, Debugging with Visual Studio

### **UNIT-V**

**Database connectivity-**Connection string, Configuring, Working with select command, Updating records, Deleting records

**Template Engines -**Why Template Engine, What is Jade, What is vash, Example

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### ANNAMACHARYA INSTITUTE OF TECNOLOGY AND SCIENCES: RAJAMPET (AUTONOMOUS)

### **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

# Notice for Enrollment to Value Added Course

Convener:

Dr. A.Subramanyam, HOD, Dept. Of CSE

Coordinator:

M M V Chalapathi

Course Name:

**Android Application Development** 

Resource Persons: S Suraj Kamal

Target Students:

II Year CSE students

Course Commencement from: July 15th 2014

No of Contact hours: 40

Registration:

Interested candidates can register to the workshop by enrolling

their names to Resource Persons.

Last date for the registration is 4th July 2014

# Prerequisite:

This course has no specific prerequisites. However some familiarities with the following are especially helpful.

Web Design

## Android App Development (Value Added Course) Syllabus

#### Unit\_I:

Getting started with android programming: What is android, obtaining the required tools, creating first android application, anatomy of android application.

**Activities, fragments & Intents:** Understanding activities, linking activities using intents, fragments, calling built-in applications using intents, displaying notifications.

#### Unit-II

Getting to know the android user interface: Understanding the components of a screen, adapting to display orientation, managing changes to screen orientation, utilizing the action bar, creating the user interface programmatically, and listening for UI notifications.

**Designing User Interface with Views:** Using basic views, using picker views, using list views to display long lists.

#### **Unit-III**

**Displaying pictures and Menus with Views:** Using image views to display pictures-Gallery and Image View views, using menus with views, analog and digital clock views.

**Data Persistence:** Saving and loading user preferences, persisting data to files, creating and using databases.

#### **Unit-IV**

**Content Providers:** Sharing data in android, using a content provider, creating own content providers.

Messaging: SMS messaging, sending E-mail.

#### Unit-V

**Location based services:** Displaying maps, getting a location data, monitoring a location, building a location tracker.

**Developing android services:** Creating your own services.

#### **Text Book:**

Beginning Android 4 Application Development, Wei-Meng Lee, Wiley India (Wrox), 2013

#### **Reference Books:**

- 1. Professional Android 4 Application Development, Reto Meier, Wiley India, (Wrox), 2012
- 2. Android Application Development for Java Programmers, James C Sheusi, Cengage Learning, 2013

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