

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY 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 2nd July 2014

Prerequisite:

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

- DBMS, JAVA


HOD
Head of Department
Department of Computer Science & Engineering
(Autonomous)
Annamacharya Institute of Technology & Sciences
Rajampet-525 125, Krishna Dist.

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.

Attendance Sheet																													
Value Added Course Name:			Big Data																										
Year ,Branch &Sem			2014-15 IV CSE I sem																										
SNO	Roll Number	5/7	10/7	11/7	17/7	18/7	19/7	24/7	25/7	26/7	31/7	1/8	2/8	7/8	14/8	15/8	21/8	22/8	23/8	28/8	29/8	30/8							
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Head of the Department
Computer Science & Engineering
Annamacharya Institute of Technology & Sciences
P. V. Subrahmanyam
L. J. Jayaraman

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(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


HOD
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Rajampet-515 026, Kadapa Dist.

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

Attendance Sheet																									
Value Added Course Name:		Node Ts																							
Year ,Branch &Sem		III CSE I Sem 2014-15 Academic Year																							
SNO	Roll Number	14/7	15/7	16/7	21/7	22/7	23/7	28/7	29/7	30/7	4/8	5/8	6/8	11/8	12/8	13/8	18/8	19/8	24/8	25/8	26/8	27/8	1/9		
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Head of the Department
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 Rajampet-515 128, Kadapa Dist.

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY 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


HOD
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Rajampet-515 123, Krishna Dist.

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

Attendance Sheet																									
Value Added Course Name:		Android Application Development																							
Year, Branch & Sem		11-J Sem 2014-15 Academic Year																							
SNO	Roll Number	16/6	17/6	18/6	19/6	23/6	24/6	25/6	26/6	30/6	1/7	2/7	7/7	8/7	9/7	10/7	14/7	15/7	16/7	21/7	22/7	23/7	28/7	29/7	
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17	13701A0525	2	4	6	8	10	12	A	14	16	18	A	20	22	24	26	28	30	32	34	36	38	40	A	
18	13701A0526	2	4	6	8	10	A	12	14	16	18	20	22	24	26	28	30	32	34	36	38	A	40	42	
19	13701A0527	2	4	6	8	A	10	12	A	14	16	A	18	20	22	A	24	26	A	28	30	32	34	36	
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21	13701A0529	2	4	6	8	10	12	14	16	18	20	22	A	24	26	28	30	32	34	36	38	40	A		
22	13701A0531	2	4	6	8	A	10	12	14	16	18	20	A	22	24	26	A	28	30	32	34	36	38	40	
23	13701A0534	A	2	4	6	8	A	10	12	14	A	16	18	A	20	22	A	24	26	28	A	30	32	34	
24	13701A0535	2	4	6	8	10	12	14	16	18	A	20	22	24	26	28	30	A	32	34	36	38	A	40	
25	13701A0536	2	4	6	8	10	12	14	16	18	20	A	22	A	24	26	A	28	30	32	A	34	A	36	
26	13701A0537	2	4	6	8	10	12	14	16	A	18	A	20	22	A	24	26	28	30	A	32	A	34	36	
27	13701A0538	2	4	6	8	10	12	14	A	16	18	20	A	22	24	26	28	A	30	32	34	A	36	38	
28	13701A0539	2	4	6	8	10	12	A	14	16	18	A	20	22	A	24	26	28	30	32	A	34	36	38	
29	13701A0540	2	4	6	A	A	8	10	12	A	14	16	A	18	20	A	22	24	26	28	30	32	34	36	

30	13701A0542	2	4	6	8	A	10	12	A	14	16	18	A	20	22	A	24	26	A	28	A	30	32	24
31	13701A0543	2	A	4	6	8	10	12	14	16	A	18	20	A	22	24	26	28	30	32	34	36	28	A
32	13701A0544	A	2	4	6	A	8	A	10	12	14	16	18	A	20	22	24	26	28	A	30	32	34	A
33	13701A0550	2	4	6	8	10	12	14	16	18	20	22	A	24	26	28	30	32	34	36	38	40	42	44
34	13701A0551	2	4	6	8	10	12	14	16	A	18	20	A	22	24	A	26	28	A	30	32	34	36	38
35	13701A0555	2	4	6	8	A	10	12	14	16	18	A	20	22	24	26	A	28	30	32	A	24	36	38
36	13701A0556	2	4	6	8	A	10	12	14	A	16	A	18	20	22	A	24	26	28	30	32	34	36	38
37	13701A0557	2	4	6	8	10	12	14	16	18	A	20	22	24	26	28	A	30	32	34	36	38	40	A
38	13701A0559	2	4	6	8	10	12	14	16	18	A	A	20	22	A	24	A	26	28	30	A	32	34	36
39	13701A0564	2	4	6	8	10	A	12	14	16	18	20	A	22	A	24	26	28	30	32	34	36	38	40
40	13701A0565	A	2	4	6	8	10	12	14	16	18	20	A	22	24	26	28	30	32	34	36	38	40	42
41	13701A0566	2	4	6	8	10	12	A	14	A	16	18	20	22	24	A	26	28	30	32	34	36	38	40
42	13701A0567	2	4	6	A	8	10	12	14	16	18	A	20	22	A	24	26	28	30	32	34	36	38	40
43	13701A0568	A	2	4	6	8	10	12	14	16	A	18	20	22	A	24	26	28	30	32	34	36	38	40
44	13701A0572	2	4	6	8	10	12	14	16	18	20	22	24	A	26	28	30	32	34	36	38	40	42	44
45	13701A0573	2	4	6	8	10	12	14	16	18	20	22	24	A	26	28	30	32	34	36	38	40	42	44
46	13701A0574	A	2	4	6	8	10	12	14	16	18	20	22	24	A	26	28	30	32	34	36	38	40	42
47	13701A0575	2	4	6	8	10	12	14	16	18	A	20	22	24	26	28	A	30	32	34	36	38	40	42
48	13701A0576	2	4	6	8	A	10	12	14	16	18	20	22	24	26	28	A	30	32	34	36	38	40	42
49	13701A0582	2	4	6	8	10	12	14	16	18	A	20	22	24	A	26	28	30	32	34	36	38	40	42
50	13701A0583	A	2	4	6	8	10	12	14	16	18	20	22	24	26	28	A	30	32	A	34	36	38	40
51	13701A0584	2	4	6	8	10	12	14	16	18	20	22	24	26	A	A	28	30	32	34	A	36	38	40
52	13701A0585	2	4	6	8	A	10	12	14	16	18	20	22	24	26	28	30	32	A	34	36	38	40	42
53	13701A0590	A	2	4	6	8	10	12	14	16	18	20	22	24	A	A	26	28	30	A	32	34	36	38
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55	13701A0597	2	4	6	8	10	12	14	16	18	20	22	24	26	28	A	A	20	A	A	22	34	36	38
56	13701A0598	2	4	6	8	10	12	14	16	18	A	20	22	24	A	26	28	30	32	A	34	36	38	40
57	13701A0599	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	A	38	40	42	44
58	13701A05A0	2	4	6	8	10	12	A	14	16	18	A	20	A	22	24	A	26	28	A	30	32	34	36
59	13701A05A1	A	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	A	36	38	40	42

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