

St Ann's College of Engineering and Technology  
Department of Computer Science and Engineering  
Lecture Schedule

Subject : Hadoop And Big Data  
Name of the Faculty: J PETER JOHN PAUL  
No of Classes per week:4+1\*(Tutorial)

Year IV CSE A -I SEM  
Academic Year:2017-18

S.NO	DATE	UNIT	TOPIC
1	19-Jun-2017	I	<b>Introduction:</b>
2	21-Jun-2017		Linked List
3	22-Jun-2017		Stacks,
4	23-Jun-2017		Queues
5	24-Jun-2017		Sets,Maps
6	28-Jun-2017		<b>Tutorial</b>
7	29-Jun-2017		Generic classes and Type parameters
8	30-Jun-2017		Implementing Generic Types, Generic Methods
9	1-Jul-2017		Concept of Serialization
10	3-Jul-2017		<b>Tutorial</b>
11	5-Jul-2017		<b>Slip Test I</b>
12	6-Jul-2017		Revision through ppt
13	7-Jul-2017	II	Working with Big Data: Google File System
14	10-Jul-2017		<b>Tutorial</b>
15	12-Jul-2017		Hadoop Distributed File System (HDFS)
16	13-Jul-2017		Building blocks of Hadoop (Namenode, Datanode,Secondary Namenode)
17	14-Jul-2017		Building blocks of Hadoop( JobTracker, TaskTracker)
18	15-Jul-2017		Introducing and Configuring Hadoop cluster
19	17-Jul-2017		<b>Tutorial</b>
20	19-Jul-2017		Local, Pseudo-distributed mode
21	20-Jul-2017		Fully Distributed mode,
22	21-Jul-2017		Fully Distributed mode,
23	22-Jul-2017		Configuring XML files.
24	24-Jul-2017		<b>Tutorial</b>
25	26-Jul-2017		<b>Slip Test II</b>
26	27-Jul-2017		Revision through ppt
27	28-Jul-2017	III	A Weather Dataset
28	29-Jul-2017		Understanding Hadoop API for MapReduce Framework
29	31-Jul-2017		<b>Tutorial</b>
30	2-Aug-2017		Basic programs of Hadoop MapReduce
31	3-Aug-2017		Basic programs of Hadoop MapReduce
32	4-Aug-2017		Driver code,
33	5-Aug-2017		Mapper code
34	7-Aug-2017		<b>Tutorial</b>
35	9-Aug-2017		<i>Combiner,</i>
36	10-Aug-2017		Partitioner
37	11-Aug-2017		Reducer code,
38	12-Aug-2017		RecordReader
39	16-Aug-2017	MID-I	Revision
40	17-Aug-2017		Revision
41	18-Aug-2017		Revision
42	19-Aug-2017		Revision
43	21-Aug-2017		Revision
44	23-Aug-2017		The Writable Interface
45	24-Aug-2017		WritableComparable and comparators
46	28-Aug-2017		<b>Tutorial</b>
47	30-Aug-2017		Writable Classes: Writable wrappers for Java primitives

48	31-Aug-2017	IV	Text, BytesWritable
49	1-Sep-2017		NullWritable, ObjectWritable and GenericWritable
50	4-Sep-2017		<b>Tutorial</b>
51	6-Sep-2017		Writable collections
52	7-Sep-2017		Implementing a Custom Writable
53	8-Sep-2017		Implementing a RawComparator for speed
54	9-Sep-2017		Custom comparators
55	11-Sep-2017		<b>Tutorial</b>
56	13-Sep-2017		<b>Slip Test III</b>
57	14-Sep-2017		Revision through ppt
58	15-Sep-2017	V	Admiring the Pig Architecture,
59	16-Sep-2017		Going with the Pig Latin Application Flow,
60	18-Sep-2017		Working through the ABCs of Pig Latin
61	20-Sep-2017		Evaluating Local and Distributed Modes of Running Pig Scripts
62	21-Sep-2017		Evaluating Local and Distributed Modes of Running Pig Scripts
63	22-Sep-2017		Checking out the Pig Script Interfaces
64	23-Sep-2017		Scripting with Pig Latin
65	25-Sep-2017		<b>Tutorial</b>
66	27-Sep-2017		<b>Slip Test IV</b>
67	4-Oct-2017		Revision through ppt
68	5-Oct-2017	VI	Saying Hello to Hive
69	6-Oct-2017		Seeing How the Hive is Put Together
70	7-Oct-2017		Getting Started with Apache Hive
71	9-Oct-2017		<b>Tutorial</b>
72	11-Oct-2017		Getting Started with Apache Hive
73	12-Oct-2017		Examining the Hive Clients
74	13-Oct-2017		Working with Hive Data Types
75	14-Oct-2017		Creating and Managing DB and Tables, Querying and Analyzing Data
76	16-Oct-2017		Revision
77	18-Oct-2017		Revision
78	19-Oct-2017	MID-II	Revision
79	20-Oct-2017		Revision
80	21-Oct-2017		Revision
81	23-Oct-2017		Revision

#### Text Books

1. Big Java 4th Edition, Cay Horstmann, Wiley John Wiley & Sons, INC
  2. Hadoop: The Definitive Guide by Tom White, 3rd Edition, O'reilly
  3. Hadoop in Action by Chuck Lam, MANNING Publ.
  4. Hadoop for Dummies by Dirk deRoos, Paul C.Zikopoulos, Roman B.Melnyk, Bruce Brown,
- References

1. Hadoop in Practice by Alex Holmes, MANNING Publications
2. Hadoop MapReduce Cookbook, Srinath Perera, Thilina Gunarathne

Faculty

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