

# Bhoj Reddy Engineering College for Women: Hyderabad

## Department of Information Technology

Lesson plan of faculty member for the academic year 2017–18

Class: IV B Tech

Branch-Section: IT-A

Semester: I

Subject :Associate Analytics

Lectures per week: 4+1 (Tutorial)

Lecture Number	Topics to be covered	Date (s)
<b>UNIT – I</b>		
1	Design Data Architecture	12 July 2017
2	Manage the data for analysis	13 July 2017
3	Understand various sources of Data like Sensors/signal/GPS etc	14 July 2017
4	Data Management	15 July 2017
5	Tutorial (G3, G2, G1)-Design of data and its analysis	13,14, 15 July 2017
6	Data Quality (noise, outliers)	19 July 2017
7	Data Quality (missing values, duplicate data)	20 July 2017
8	Data Preprocessing	21 July 2017
9	Export all the data onto Cloud ex. AWS/Rackspace etc.	22 July 2017
10	Tutorial (G3, G2, G1)-Discussion of cloud computing on Big data	20,21,22 July 2017
11	Export all the data onto Cloud ex. AWS/Rackspace etc.	26 July 2017
12	Maintain Healthy, Safe & Secure Working Environment: Introduction	27 July 2017
13	Workplace safety, Report Accidents & Emergencies,	28 July 2017
14	Protect health & safety as your work	29 July 2017
15	Tutorial (G3, G2, G1)-General discussion of workplace safety and accidents	27,28,29 July 2017
16	Course conclusion, assessment.	2 August 2017
<b>UNIT – II</b>		
17	Introduction to Big Data tools like Hadoop, Spark, Impala etc	3 August 2017
18	Data ETL process	4 August 2017
19	Identify gaps in the data	5 August 2017
20	Tutorial (G3, G2, G1)-Data ETL process	4,5,6 August 2017
21	Follow-up for decision making	9 August 2017
22	Provide Data/information In Standard Formats (NOS 9004): Introduction	10 August 2017
23	Knowledge Management	11 August 2017
24	Standardized reporting & compliances	12 August 2017
25	Tutorial (G3, G2, G1)-Provide data and information	10,11,12 August 2017
26	Standardized compliances	16 August 2017
27	Decision Models	17 August 2017
28	course conclusion	18 August 2017
30	Assessment.	19 August 2017
31	Tutorial (G3, G2, G1)-Decision models	17,18,19 August 2017
32	Revision Unit-II	23 August 2017
<b>UNIT – III</b>		
33	Run descriptive to understand the nature of the available data	24 August 2017
34	Understanding the nature of the available data	26 August 2017
35	Tutorial (G3,G1)-understanding the data	24,26 August 2017
36	Collate all the data sources to suffice business requirement	30 August 2017
37	Collate all the data sources to suffice business requirement	31 August 2017
38	Run descriptive statistics for all the variables	1 September 2017

39	Tutorial (G3, G2, G1)-Business Requirements	31 August ,1 & 2 September 2017
40	Observing the data ranges	1 September 2017
41	Outlier detection	2 September 2017
42	Outlier elimination	9 September 2017
43	Tutorial (G1)-Observing data ranges	9 September 2017
44	Revision of unit-III	13 September 2017
45	Revision of unit-III	14 September 2017
<b>UNIT – IV</b>		
46	Hypothesis testing	15 September 2017
47	Hypothesis testing	16 September 2017
48	Tutorial (G3, G2, G1) -Hypothesis testing	14,15,16 September 2017
49	Determining the multiple analytical methodologies	21 September 2017
50	Determining the multiple analytical methodologies	22 September 2017
51	Train Model on 2/3 sample data using various Statistical algorithms	23 September 2017
52	Tutorial (G3, G2, G1)-Machine and Statistical algorithms	21,22,23 September 2017
53	Train Model on 2/3 sample data using various Statistical algorithms	4 October 2017
54	Train Model on 2/3 sample data using various machine algorithms	5 October 2017
55	Train Model on 2/3 sample data using various machine algorithms	6 October 2017
56	Test model on 1/3 sample for prediction etc.	7 October 2017
57	Tutorial (G3, G2, G1)- Train and Test models	5,6,7 October 2017
58	Test model on 1/3 sample for prediction etc.	11 October 2017
59	Test model on 1/3 sample for prediction etc.	12 October 2017
60	Revision of unit-IV	13 October 2017
61	Tutorial (G3, G2, G1)- Train and Test models	12,13,14 October 2017
<b>UNIT – V</b>		
62	Prepare the data for Visualization	19 October 2017
63	Prepare the data for Visualization	20 October 2017
64	Use tools like Tableau	21 October 2017
65	Tutorial (G3, G2, G1) - Data for Visualization	19,20,21 October 2017
66	Use tools like Tableau	25 October 2017
67	QlickView and 03,	26 October 2017
68	QlickView and 03,	27 October 2017
69	Draw insights out of Visualization tool	28 October 2017
70	Tutorial (G3, G2, G1) -Visualization Tool	19 ,20, 21 October 2017
71	Draw insights out of Visualization tool	1 November 2017
72	Draw insights out of Visualization tool	2 November 2017
73	Revision of unit-IV	3 November 2017
74	Revision of unit-IV	4 November 2017
75	Tutorial (G3, G2, G1) -Visualization Tool	

**Text books:**

1.Students Handbook for Associate Analytics

Name and signature of the faculty: E Nitya ----

Name and signature of Head of the Department: Mr.K Sandeep Kumar ----