

SSN College of Engineering
Department of Computer Science and Engineering
Kalavakkam – 603 110.

COURSE ASSESSMENT PLAN

Class: B.E. VII Semester 'A' Sec

Sub.Name: Data Analytics

Faculty :S.Rajalakshmi

Sub.Code: IT6006

Batch: 2014-2018

Year: 2017-2018 (Odd)

Course Objectives

- Be exposed to big data
- Learn the different ways of Data Analysis
- Be familiar with data streams
- Learn the mining and clustering
- Be familiar with the visualization

Blooms Taxonomy

Remember	Understand	Apply	Analyze	Evaluate	Create
K1	K2	K3	K4	K5	K6

Course Outcomes (CO)

At the end of the semester, students are able to

- Understand the concepts of big data and apply the statistical analysis methods(**K3**)
- Compare and contrast various data analysis and soft computing frameworks(**K4**)
- Apply Stream data model(**K3**)
- Analyze various clustering and frequent pattern mining (**K4**)
- Design distributed file systems and apply Visualization techniques(**K3**)

UG - Programme Outcomes [POs]		Knowledge Level
1	Engineering knowledge: Our graduates will have the knowledge of mathematics, logic, probability and statistics, computer science and engineering, and the skill to apply them in the fields of computer software and hardware.	K3
2	Problem analysis: Our graduates will have the knowledge and skill to identify, formulate, and solve hardware and software problems using sound computer science principles.	K4
3	Experimentation: Our graduates will have the skill to design and conduct experiments, organize, analyze, and interpret data.	K5
4	Design and development: Our graduates will have the skill to design and construct hardware and software systems, components, or processes as per needs and specifications.	K4
5	Team work: Our graduates will have the interpersonal and communication skills to function as team players on multidisciplinary teams.	-

6	Modern tools usage: Our graduates will be able to use the techniques, skills, and modern hardware and software tools necessary for computer engineering practice.	K3
7	Social and environmental responsibility: Our graduates will demonstrate knowledge related to social, ethical, legal, economical, health and safety, sustainability and environmental dimensions.	
8	Communication skills: Our graduates will be able to effectively communicate technical information in speech, presentation, and in writing.	
9	Contemporariness: Our graduates will have knowledge of contemporary issues in the practice of their profession.	
10	Self-learning: Our graduates will develop confidence for self learning and ability for life-long learning.	
11	Competitive exam preparedness: Our graduates will participate and succeed in competitive examinations such as GATE, IES, GRE.	
12	Leadership: Our graduates are trained to enhance their managerial skills, leadership quality and entrepreneurial spirit.	

Course Outcomes Mapped To Programme Outcomes

		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
		K3	K4	K5	K4	-	K3	-	-	-	-	-	-
CO1	K3	3	2	2	2	-	3	-	-	2	-	-	-
CO2	K4	3	3	2	3	-	3	-	-	2	-	-	-
CO3	K3	3	2	2	2	-	3	-	-	2	-	-	-
CO4	K4	3	3	2	3	-	3	-	-	2	-	-	-
CO5	K3	3	2	2	2	-	3	-	-	2	2	-	-

Description of Assessment Tools

Exams: Three Unit Assessment Tests during the term and final University exams.

Course Assessment Matrix

	Outcome				
	1	2	3	4	5
<i>Assessment 1</i>	X	X			
<i>Assessment 2</i>		X	X		
<i>Assessment 3</i>				X	X

Prepared by

Reviewed by

Approved by

S.Rajalakshmi

PAC Team

HOD-CSE

Justification of CO- PO mapping

CO	Description	Knowledge level	Remarks
CO1	Understand the concepts of big data and apply the statistical analysis methods	(K3)	Understand the concepts of big data and how it differs from conventional systems. Know about various statistical concepts applied in analysis.
CO2	Compare and contrast various data analysis and soft computing frameworks	(K4)	Study about various data analysis techniques. They can analyze which technique is suitable for what situation.
CO3	Apply Stream data model	(K3)	Study about the data mining from stream data and apply them for any real world problems.
CO4	Analyze various clustering and frequent pattern mining	(K4)	Study about various clustering techniques and frequent itemset mining and compare them.
CO5	Design distributed file systems and use Visualization techniques	(K3)	Know about the distributed environment and visualization technique for big data and apply them for their projects.

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