



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018-2019 / ODD SEMESTER

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

VAC Title:	Data Mining				
Resource Person:	Mr.A.R.Sooriyaoli Managing Director, Blue Fire Xperts Infotech OPC PVT LTD, Trichy.				
Date of conduct from:	17.12.2018	To:	22.12.2018	Duration:	36 Hours
Organized Department:	COMPUTER SCIENCE AND ENGINEERING				
Participant Year:	CSE IV,III,II, and M.E-II	Semester:	ODD	No. of Students Registered:	115
Venue:	SD Lab , Network Lab				

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Madurai Main Road (NH-45B), Manikandam, Trichirapalli- 620 012
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Department of Computer Science & Engineering

Academic Year 2018-2019 – Odd Semester

11.12.2018

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering IGCE in association with Blue Fire Xperts Infotech OPC Pvt Ltd is going to organized Value Added Course for BE- II,III,IV and M.E First, Second year students on “Data Mining” from 17.12.18 to 22.12.18. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person	1. Mr. A.R.Sooriyaoli, Managing Director, Blue Fire Xperts Infotech OPC Pvt Ltd, Trichy, 2. Mr. V.Roshan Trainer Blue Fire Xperts Infotech OPC Pvt Ltd, Trichy
Venue 1	SD LAB
Venue 2	NETWORK LAB


HOD/CSE


PRINCIPAL

Cc:

- Principal Office
- HoD/ CSE
- Class In charges - II, III ,IV & ME I,II
- II, III & IV-Year PG CSE Students
- Office File
- Notice Board


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Academic Year 2018-2019 – Odd Semester

Value Added Course on

“Data Mining”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	INTRODUCTION <ul style="list-style-type: none">➤ What is data mining?➤ Related technologies - Machine Learning, DBMS, OLAP, Statistics➤ Data Mining Goals➤ Stages of the Data Mining Process➤ Data Mining Techniques➤ Knowledge Representation Methods➤ Applications➤ Example: weather data	3	17.12.18
2	Data Warehouse and OLAP <ul style="list-style-type: none">➤ Data Warehouse and DBMS➤ Multidimensional data model➤ OLAP operations➤ Example: loan data set	3	17.12.18
3	Data preprocessing <ul style="list-style-type: none">➤ Data cleaning➤ Data reduction➤ Installing Weka 3 Data Mining System➤ Experiments with Weka - filters, discretization	3	18.12.18
4	Data mining knowledge representation <ul style="list-style-type: none">➤ Task relevant data	3	18.12.18


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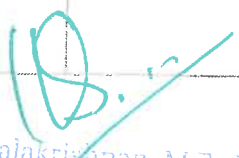
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Academic Year 2018-2019 – Odd Semester

	<ul style="list-style-type: none">➤ Background knowledge➤ Interestingness measures➤ Representing input data and output knowledge➤ Visualization techniques➤ Experiments with Weka - visualization		
5	Attribute-oriented analysis <ul style="list-style-type: none">➤ Attribute generalization➤ Attribute relevance➤ Class comparison➤ Statistical measures➤ Experiments with Weka - using filters and statistics	3	19.12.18
6	Data mining algorithms: Association rules <ul style="list-style-type: none">➤ Motivation and terminology➤ Example: mining weather data➤ Basic idea: item sets➤ Generating item sets and rules efficiently➤ Correlation analysis➤ Experiments with Weka - mining association rules	3	19.12.18
7	MULTITHREADING <ul style="list-style-type: none">➤ Multi-tasking Vs Multithreading➤ Life Cycle of Thread Java.lang.thread Vs Java.lang.runnable➤ Developing Multithreaded Applications➤ Synchronization➤ Dead-Lock➤ Inter-thread communication	3	20.12.18
8	Data mining algorithms: Classification <ul style="list-style-type: none">➤ Basic learning/mining tasks➤ Inferring rudimentary rules: 1R algorithm➤ Decision trees➤ Covering rules	5	20.12.18


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Academic Year 2018-2019 – Odd Semester

	<ul style="list-style-type: none">➤ Experiments with Weka - decision trees, rules		
9	<p>Data mining algorithms: Prediction</p> <ul style="list-style-type: none">➤ The prediction task➤ Statistical (Bayesian) classification➤ Bayesian networks➤ Instance-based methods (nearest neighbor)➤ Linear models➤ Experiments with Weka - Prediction	4	21.12.18
10	<p>Clustering</p> <ul style="list-style-type: none">➤ Basic issues in clustering➤ First conceptual clustering system: Cluster/2➤ Partitioning methods: k-means, expectation maximization (EM)➤ Hierarchical methods: distance-based agglomerative and divisible clustering➤ Conceptual clustering: Cobweb➤ Experiments with Weka - k-means, EM, Cobweb	5	22.12.18
11	Exam	1	22.12.18
Total Hours		36	-


VAC Coordinator


HoD/CSE


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Academic Year 2018-2019 – Odd Semester

Value Added Course

Data Mining

STUDENTS PARTICIPATION LIST

S.No.	Reg.No	Student's Name	Year/ Branch
1.	811215104001	Abhinaya. R	IV/CSE
2.	811215104002	Abirami.A	IV/CSE
3.	811215104003	Apporvavalli.A	IV/CSE
4.	811215104004	Aravinth.B	IV/CSE
5.	811215104005	Balaji.G	IV/CSE
6.	811215104006	Balaji.G	IV/CSE
7.	811215104007	Barani Kumar.M	IV/CSE
8.	811215104009	Denima.A	IV/CSE
9.	811215104010	Dhurga Devi.M	IV/CSE
10.	811215104013	Giridharani.S	IV/CSE
11.	811215104014	Gokila.R	IV/CSE
12.	811215104015	Gomathi.A	IV/CSE
13.	811215104016	Hema.P	IV/CSE
14.	811215104017	Hemasivasankari.S	IV/CSE
15.	811215104018	Indhu.S	IV/CSE
16.	811215104019	Indira.K.J	IV/CSE
17.	811215104020	Kanaga Raj.P	IV/CSE
18.	811215104021	Keerthana.R.R	IV/CSE
19.	811215104022	Keerthana.S	IV/CSE
20.	811215104023	Mani Kandan.A	IV/CSE
21.	811215104024	Mani Kandan.P	IV/CSE
22.	811215104025	Meena.A	IV/CSE
23.	811215104026	Murali.S	IV/CSE
24.	811215104027	Narkis Banu.A	IV/CSE
25.	811215104028	Nirosha.K	IV/CSE


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S.No.	Reg.No	Student's Name	Year/ Branch
26.	811215104029	Pradeep.T	IV/CSE
27.	811215104030	Praveen Kumar.V	IV/CSE
28.	811215104031	Prem Kumar.N	IV/CSE
29.	811215104032	Priya.M	IV/CSE
30.	811215104033	Priyanga.P	IV/CSE
31.	811215104034	Rajmohan.V	IV/CSE
32.	811215104035	Ramalakshmi.M	IV/CSE
33.	811215104036	Ramya.K	IV/CSE
34.	811215104037	Roselin Lithveena.J	IV/CSE
35.	811215104038	Sangeetha.I	IV/CSE
36.	811215104039	Saranya.M	IV/CSE
37.	811215104040	Shabika Banu.B	IV/CSE
38.	811215104041	Subashree.M	IV/CSE
39.	811215104042	Subathradevi.C	IV/CSE
40.	811215104043	Suganya.S	IV/CSE
41.	811215104044	Suhashini.R	IV/CSE
42.	811215104047	Yogapriya.B	IV/CSE
43.	811215104301	Annalakshmi.G	IV/CSE
44.	811215104302	Rangeela.T	IV/CSE
45.	811216104002	Anjaladevi J	III/CSE
46.	811216104003	Aparna S	III/CSE
47.	811216104004	Archana T	III/CSE
48.	811216104005	Bakkiya V	III/CSE
49.	811216104007	Banumathi D	III/CSE
50.	811216104008	Dhanush S	III/CSE
51.	811216104009	Dhivya B	III/CSE
52.	811216104010	Divya R	III/CSE
53.	811216104011	Ganeshkumar A	III/CSE
54.	811216104012	Gobala Krishnan R	III/CSE
55.	811216104013	Gunasekar P	III/CSE
56.	811216104014	Jothika R	III/CSE
57.	811216104015	Karthikeyan J	III/CSE

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S.No.	Reg.No	Student's Name	Year/ Branch
58.	811216104016	Keerthana K	III/CSE
59.	811216104017	Keerthana P	III/CSE
60.	811216104018	Kirubakaran M	III/CSE
61.	811216104019	Kiruthika R	III/CSE
62.	811216104020	Meenakshi S	III/CSE
63.	811216104021	Naveen K	III/CSE
64.	811216104022	Naveenkumar S	III/CSE
65.	811216104023	Neroson Kiosus N	III/CSE
66.	811216104024	Pavithra G	III/CSE
67.	811216104026	Pavithra.R	III/CSE
68.	811216104027	Prabahar R	III/CSE
69.	811216104028	Racika R	III/CSE
70.	811216104029	Rahul S	III/CSE
71.	811216104030	Revathi N	III/CSE
72.	811216104031	Saranya A	III/CSE
73.	811216104032	Saranya M	III/CSE
74.	811216104033	Saravanan M	III/CSE
75.	811216104034	Sharun Prabu A	III/CSE
76.	811216104035	Soundharya J	III/CSE
77.	811216104036	Tamilselvam M	III/CSE
78.	811216104038	Tharik A	III/CSE
79.	811216104039	Varsha S	III/CSE
80.	811216104040	Vigneshwarachari S	III/CSE
81.	811216104041	Vijayalakshmi M	III/CSE
82.	811216104042	Vijayalakshmi P	III/CSE
83.	811216104043	Vinitha M	III/CSE
84.	811216104044	Vinitha Devi P	III/CSE
85.	811216104045	Yogeshwaran S	III/CSE
86.	811216104046	Yuvasri T	III/CSE
87.	811217104001	Aarthi J	II/CSE
88.	811217104002	Deepika N	II/CSE
89.	811217104003	Dhanalakshmi R	II/CSE


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S.No.	Reg.No	Student's Name	Year/ Branch
90.	811217104004	Goadhar Fathima S	II/CSE
91.	811217104005	Gowtham Raaj K	II/CSE
92.	811217104007	Jeya Pratha A	II/CSE
93.	811217104008	Jickson S	II/CSE
94.	811217104009	Kamatchi V	II/CSE
95.	811217104010	Kokila V	II/CSE
96.	811217104011	Lakshmi Priya M	II/CSE
97.	811217104012	Naveen R	II/CSE
98.	811217104013	Panneer Selvam R	II/CSE
99.	811217104014	Princy Deepa X	II/CSE
100.	811217104015	Raghul L	II/CSE
101.	811217104016	Salma Banu M	II/CSE
102.	811217104017	Seebika M	II/CSE
103.	811217104019	Siva Sankari S	II/CSE
104.	811217104020	Swathi M	II/CSE
105.	811217104022	Vasuki M	II/CSE
106.	811217104023	Yogesh Kannan P H	II/CSE
107.	811217405001	Padmadevi A	II/M.E CSE
108.	811217405002	Panimalar V	II/M.E CSE
109.	811217405003	Sankari R	II/M.E CSE
110.	811217405004	Shanmuga Priya M	II/M.E CSE
111.	811217405005	Suganya A	II/M.E CSE
112.	811218405001	Aswini. M	I/M.E CSE
113.	811218405002	Gwendolyn Rosetta.G	I/M.E CSE
114.	811218405003	Harish.V	I/M.E CSE
115.	811218405004	Nirmala.N	I/M.E CSE

A. G. Gopal
W.C Coordinator

D. Prudh
HoD/CSE

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Academic Year 2018-2019 – Odd Semester

STUDENTS ATTENDANCE LIST

Value Added Course

Data Mining


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S.No.	Reg.No	Student's Name	Year/ Branch	17.12.18		18.12.18		19.12.18		20.12.18		21.12.18		22.12.18		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1.	811215104001	Abhinaya. R	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	R. Abhinaya
2.	811215104002	Abirami.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	A. Abirami
3.	811215104003	Apporvavalli.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	A. Apporvavalli
4.	811215104004	Aravinth.B	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	B. Aravinth
5.	811215104005	Balaji.G	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	G. Balaji
6.	811215104006	Balaji.G	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	G. Balaji
7.	811215104007	Barani Kumar.M	IV/CSE	P	P	P	P	P	P	P	A	A	P	P	10	M. Barani	
8.	811215104009	Denima.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	A. Denima
9.	811215104010	Dhurga Devi.M	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	M. Dhurga Devi
10.	811215104013	Giridharani.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	S. Giridharani
11.	811215104014	Gokila.R	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	R. Gokila
12.	811215104015	Gomathi.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	A. Gomathi
13.	811215104016	Hema.P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	P. Hema
14.	811215104017	Hemasivasankari.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	S. Hemasivasankari



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Academic Year 2018-2019 – Odd Semester

15.	811215104018	Indhu.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	S. Indhu
16.	811215104019	Indira.K.J	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	K.J. Indira
17.	811215104020	Kanaga Raj.P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	P. Kanaga
18.	811215104021	Keerthana.R.R	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	R.R. Keerthana
19.	811215104022	Keerthana.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	S. Keerthana
20.	811215104023	Mani Kandan.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	A. Mani Kandan
21.	811215104024	Mani Kandan.P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	P. Mani Kandan
22.	811215104025	Meena.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	A. Meena
23.	811215104026	Murali.S	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	S. Murali
24.	811215104027	Narkis Banu.A	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	A. Narkis Banu
25.	811215104028	Nirosha.K	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	K. Nirosha
26.	811215104029	Pradeep.T	IV/CSE	P	P	P	P	P	P	P	P	P	A	A		10	T. Pradeep
27.	811215104030	Praveen Kumar.V	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	V. Praveen
28.	811215104031	Prem Kumar.N	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	N. Prem Kumar
29.	811215104032	Priya.M	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	M. Priya
30.	811215104033	Priyanga.P	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	P. Priyanga
31.	811215104034	Rajmohan.V	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	V. Rajmohan
32.	811215104035	Ramalakshmi.M	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	M. Ramalakshmi
33.	811215104036	Ramya.K	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	11	K. Ramya
34.	811215104037	Roselin Lithveena.J	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	J. Roselin
35.	811215104038	Sangeetha.I	IV/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	I. Sangeetha



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(Handwritten signature)

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Department of Computer Science & Engineering


Academic Year 2018-2019 – Odd Semester

57.	811216104015	Karthikeyan J	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Karthikeyan J
58.	811216104016	Keerthana K	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Keerthana K
59.	811216104017	Keerthana P	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Keerthana P
60.	811216104018	Kirubakaran M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Kirubakaran M
61.	811216104019	Kiruthika R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Kiruthika R
62.	811216104020	Meenakshi S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Meenakshi S
63.	811216104021	Naveen K	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Naveen K
64.	811216104022	Naveenkumar S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Naveenkumar S
65.	811216104023	Neroson Kiosus N	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Neroson Kiosus N
66.	811216104024	Pavithra G	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Pavithra G
67.	811216104026	Pavithra.R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Pavithra.R
68.	811216104027	Prabakar R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Prabakar R
69.	811216104028	Racika R	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Racika R
70.	811216104029	Rahul S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Rahul S
71.	811216104030	Revathi N	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Revathi N
72.	811216104031	Saranya A	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Saranya A
73.	811216104032	Saranya M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Saranya M
74.	811216104033	Saravanan M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	11	Saravanan M
75.	811216104034	Sharun Prabu A	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Sharun Prabu A
76.	811216104035	Soundharya J	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Soundharya J
77.	811216104036	Tamilselvam M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	12	Tamilselvam M



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Academic Year 2018-2019 – Odd Semester

78.	811216104038	Tharik A	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	Tharik
79.	811216104039	Varsha S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	S. Val.
80.	811216104040	Vigneshwarachari S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	S. Vignesh
81.	811216104041	Vijayalakshmi M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	M. Vijay
82.	811216104042	Vijayalakshmi P	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	P. vijayalak
83.	811216104043	Vinitha M	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	M. Vinitha
84.	811216104044	Vinitha Devi P	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	P. vinitha
85.	811216104045	Yogeshwaran S	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	Y.esh
86.	811216104046	Yuvasri T	III/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	T. Yuvasri
87.	811217104001	Aarthi J	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	J. Arthi
88.	811217104002	Deepika N	II/CSE	P	P	A	A	P	P	P	P	P	P	P	P	P	10	N. Deepika
89.	811217104003	Dhanalakshmi R	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	R. Dhan
90.	811217104004	Goadhar Fathima S	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	S. Goadhar
91.	811217104005	Gowtham Raaj K	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	K. Gowtham
92.	811217104007	Jeya Pratha A	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	A. jeyapratha
93.	811217104008	Jickson S	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	S. Jickson
94.	811217104009	Kamatchi V	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	V. Kamatchi
95.	811217104010	Kokila V	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	V. Kokila
96.	811217104011	Lakshmi Priya M	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	M. Lakshmi Priya
97.	811217104012	Naveen R	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	R. Naveen
98.	811217104013	Panneer Selvam R	II/CSE	P	P	P	P	P	P	P	P	P	P	P	P	P	12	R. Panneer Selvam



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113.	811218405002	Gwendolyn Rosetta.G	I.M.E CSE	P	P	P	P	P	P	P	P	P	P	P	12	G.G.R
114.	811218405003	Harish.V	I.M.E CSE	P	P	P	P	P	P	P	P	P	P	P	12	V. Harish
115.	811218405004	Nirmala.N	I.M.E CSE	P	P	P	P	P	P	P	P	P	P	P	12	N. Nirmala

G. G. R.
VAC Coordinator

D. P. S.
HoD/CSE

(D.S.)
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Academic Year 2018-2019 – Odd Semester

Name of the Student : Tharika A

Year/Sem: III / V

AU Register Number: 811216104038

Value Added Course on "Data Mining"

MCO QUESTIONS (25X4 = 100 Marks)

1. Which of the following refers to the problem of finding abstracted patterns (or structures) in the unlabeled data?

- A. Unsupervised learning
- B. Hybrid learning
- C. Reinforcement learning
- D. Supervised learning

2. Which of the following is an essential process in which the intelligent methods are applied to extract data patterns?

- A. Warehousing
- B. Data Mining
- C. Text Mining
- D. Data Selection

3. What is KDD in data mining?

- A. Knowledge Discovery Database
- B. Knowledge Discovery Data
- C. Knowledge Data definition
- D. Knowledge data house

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4. For what purpose, the analysis tools pre-compute the summaries of the huge amount of data?

- A. In order to maintain consistency
- B. For authentication
- C. For data access
- D. To obtain the queries response

5. What are the functions of Data Mining?

- A. Association and correctional analysis classification
- B. Prediction and characterization
- C. Cluster analysis and Evolution analysis
- D. All of the above

6. Which of the following statements is incorrect about the hierarchal clustering?

- A. The hierarchal type of clustering is also known as the HCA
- B. The choice of an appropriate metric can influence the shape of the cluster
- C. In general, the splits and merges both are determined in a greedy manner
- D. All of the above

7. Which one of the following can be considered as the final output of the hierarchal type of clustering?

- A. A tree which displays how the close thing are to each other
- B. Assignment of each point to clusters
- C. Finalize estimation of cluster centroids
- D. None of the above

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8. Suppose one wants to predict the number of newborns according to the size of storks' population by performing supervised learning
- A. Structural equation modeling
 - B. Clustering
 - C. Regression
 - D. Classification
9. Which of the following statements is correct about data mining?
- A. It can be referred to as the procedure of mining knowledge from data
 - B. Data mining can be defined as the procedure of extracting information from a set of the data
 - C. The procedure of data mining also involves several other processes like data cleaning, data transformation, and data integration
 - D. All of the above
10. In data mining, how many categories of functions are included?
- A. 5
 - B. 4
 - C. 2
 - D. 3
11. The analysis performed to uncover the interesting statistical correlation between associated -attributes value pairs are known as the _____.
- A. Mining of association
 - B. Mining of correlation
 - C. Mining of clusters
 - D. All of the above

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12. Which of the following can be considered as the classification or mapping of a set or class with some predefined group or classes?
- A. Data set
 - B. Data Characterization
 - C. Data Sub Structure
 - D. Data Discrimination
13. The classification of the data mining system involves:
- A. Database technology
 - B. Information Science
 - C. Machine learning
 - D. All of the above
14. The issues like efficiency, scalability of data mining algorithms comes under _____
- A. Performance issues
 - B. Diverse data type issues
 - C. Mining methodology and user interaction
 - D. All of the above
15. Which of the following correctly refers the data selection?
- A. A subject-oriented integrated time-variant non-volatile collection of data in support of management
 - B. The actual discovery phase of a knowledge discovery process
 - C. The stage of selecting the right data for a KDD process
 - D. All of the above

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16. Which one of the following can be considered as the correct application of the data mining?
- A. Fraud detection
 - B. Corporate Analysis & Risk management
 - C. Management and market analysis
 - D. All of the above
17. Which one of the following correctly refers to the Class study in the data cauterization?
- A. Final class
 - B. Study class
 - C. Target class
 - D. Both A and C
18. Which of the following also used as the first step in the knowledge discovery process?
- A. Data selection
 - B. Data cleaning
 - C. Data transformation
 - D. Data integration
19. Which of the following refers to the steps of the knowledge discovery process, in which the several data sources are combined?
- A. Data selection
 - B. Data cleaning
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20. Which one of the following issues must be considered before investing in data mining?
- A. Compatibility
 - B. Functionality
 - C. Vendor consideration
 - D. All of the above
21. In certain cases, it is not clear what kind of pattern need to find, data mining should _____:
- A. Try to perform all possible tasks
 - B. Perform both predictive and descriptive task
 - C. It may allow interaction with the user so that he can guide the mining process
 - D. All of the above
22. Which of the following can be considered as the correct process of Data Mining?
- A. Infrastructure, Exploration, Analysis, Interpretation, Exploitation
 - B. Exploration, Infrastructure, Analysis, Interpretation, Exploitation
 - C. Exploration, Infrastructure, Interpretation, Analysis, Exploitation
 - D. Exploration, Infrastructure, Analysis, Exploitation, Interpretation
23. Which of the following statements about hierarchal clustering is incorrect?
- A. The hierarchal clustering can primarily be used for the aim of exploration
 - B. The hierarchal clustering should not be primarily used for the aim of exploration
 - C. Both A and B
 - D. None of the above


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24. Which one of the following can be defined as the data object which does not comply with the general behavior (or the model of available data)?

A. Evaluation Analysis

B. Outliner Analysis

C. Classification

D. Prediction

25. Which of the following statement is true about the classification?

A. It is a measure of accuracy

B. It is a subdivision of a set

C. It is the task of assigning a classification

D. None of the above

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Academic Year 2018-2019 – Odd Semester

Name of the Student : Denima . A

Year/Sem: IV / VI

AU Register Number: 811215104009

Value Added Course on "Data Mining"

MCQ QUESTIONS (25X4 = 100 Marks)

23
25

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Value Added Course

“Data Mining”

ANSWER KEY

1	A	6	D	11	B	16	D	21	C
2	B	7	A	12	D	17	C	22	A
3	A	8	C	13	D	18	B	23	A
4	D	9	D	14	A	19	D	24	B
5	D	10	C	15	C	20	D	25	B


VAC Coordinator


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VALUE ADDED COURSE ASSESMENT SHEET

Data mining


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S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1.	811215104001	Abhinaya. R	IV/CSE	36	100	20	80	90
2.	811215104002	Abirami.A	IV/CSE	36	100	15	60	80
3.	811215104003	Apporvavalli.A	IV/CSE	36	100	19	76	88
4.	811215104004	Aravinth.B	IV/CSE	36	100	22	88	94
5.	811215104005	Balaji.G	IV/CSE	36	100	18	72	86
6.	811215104006	Balaji.G	IV/CSE	30	83	17	68	75
7.	811215104007	Barani Kumar.M	IV/CSE	36	100	18	72	86
8.	811215104009	Denima.A	IV/CSE	36	100	23	92	91
9.	811215104010	Dhurga Devi.M	IV/CSE	36	100	16	64	82
10.	811215104013	Giridharani.S	IV/CSE	36	100	16	64	82
11.	811215104014	Gokila.R	IV/CSE	33	92	20	80	86
12.	811215104015	Gomathi.A	IV/CSE	36	100	20	80	90
13.	811215104016	Hema.P	IV/CSE	36	100	22	88	94



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				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
14.	811215104017	Hemasivasankari.S	IV/CSE	36	100	17	68	84
15.	811215104018	Indhu.S	IV/CSE	36	100	19	76	88
16.	811215104019	Indira.K.J	IV/CSE	36	100	19	76	88
17.	811215104020	Kanaga Raj.P	IV/CSE	36	100	20	80	90
18.	811215104021	Keerthana.R.R	IV/CSE	36	100	16	64	82
19.	811215104022	Keerthana.S	IV/CSE	33	92	16	64	78
20.	811215104023	Mani Kandan.A	IV/CSE	36	100	22	88	94
21.	811215104024	Mani Kandan.P	IV/CSE	36	100	18	72	86
22.	811215104025	Meena.A	IV/CSE	36	100	22	88	94
23.	811215104026	Murali.S	IV/CSE	36	100	22	88	94
24.	811215104027	Narkis Banu.A	IV/CSE	36	100	20	80	90
25.	811215104028	Nirosha.K	IV/CSE	30	83	20	80	81
26.	811215104029	Pradeep.T	IV/CSE	36	100	15	60	80

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Department of Computer Science & Engineering

Academic Year 2018-2019 – Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
27.	811215104030	Praveen Kumar.V	IV/CSE	36	100	19	76	88
28.	811215104031	Prem Kumar.N	IV/CSE	36	100	22	88	94
29.	811215104032	Priya.M	IV/CSE	36	100	18	72	86
30.	811215104033	Priyanga.P	IV/CSE	36	100	17	68	84
31.	811215104034	Rajmohan.V	IV/CSE	36	100	18	72	86
32.	811215104035	Ramalakshmi.M	IV/CSE	33	92	17	68	80
33.	811215104036	Ramya.K	IV/CSE	36	100	16	64	82
34.	811215104037	Roselin Lithveena.J	IV/CSE	36	100	16	64	82
35.	811215104038	Sangeetha.I	IV/CSE	36	100	20	80	90
36.	811215104039	Saranya.M	IV/CSE	36	100	20	80	90
37.	811215104040	Shabika Banu.B	IV/CSE	36	100	22	88	94
38.	811215104041	Subashree.M	IV/CSE	36	100	17	68	84

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Department of Computer Science & Engineering

Academic Year 2018-2019 – Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
39.	811215104042	Subathradevi.C	IV/CSE	36	100	19	76	88
40.	811215104043	Suganya.S	IV/CSE	36	100	19	76	88
41.	811215104044	Suhashini.R	IV/CSE	36	100	20	80	90
42.	811215104047	Yogapriya.B	IV/CSE	36	100	16	64	82
43.	811215104301	Annalakshmi.G	IV/CSE	36	100	16	64	82
44.	811215104302	Rangeela.T	IV/CSE	33	92	22	88	90
45.	811216104002	Anjaladevi J	III/CSE	30	83	18	72	77.5
46.	811216104003	Aparna S	III/CSE	36	100	22	88	94
47.	811216104004	Archana T	III/CSE	36	100	22	88	94
48.	811216104005	Bakkiya V	III/CSE	36	100	20	80	90
49.	811216104007	Banumathi D	III/CSE	36	100	20	80	90
50.	811216104008	Dhanush S	III/CSE	36	100	15	60	80
51.	811216104009	Dhivya B	III/CSE	36	100	19	76	88


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Department of Computer Science & Engineering

Academic Year 2018-2019 – Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
52.	811216104010	Divya R	III/CSE	36	100	22	88	94
53.	811216104011	Ganeshkumar A	III/CSE	36	100	18	72	86
54.	811216104012	Gobala Krishnan R	III/CSE	36	100	17	68	84
55.	811216104013	Gunasekar P	III/CSE	36	100	18	72	86
56.	811216104014	Jothika R	III/CSE	36	100	17	68	84
57.	811216104015	Karthikeyan J	III/CSE	36	100	16	64	82
58.	811216104016	Keerthana K	III/CSE	36	100	16	64	82
59.	811216104017	Keerthana P	III/CSE	36	100	20	80	90
60.	811216104018	Kirubakaran M	III/CSE	36	100	20	80	90
61.	811216104019	Kiruthika R	III/CSE	36	100	22	88	94
62.	811216104020	Meenakshi S	III/CSE	30	83	17	68	76
63.	811216104021	Naveen K	III/CSE	36	100	19	76	88
64.	811216104022	Naveenkumar S	III/CSE	36	100	19	76	88


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Department of Computer Science & Engineering

Academic Year 2018-2019 – Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
65.	811216104023	Neroson Kiosus N	III/CSE	36	100	20	80	90
66.	811216104024	Pavithra G	III/CSE	36	100	16	64	82
67.	811216104026	Pavithra.R	III/CSE	36	100	16	64	82
68.	811216104027	Prabakar R	III/CSE	36	100	22	88	94
69.	811216104028	Racika R	III/CSE	36	100	18	72	86
70.	811216104029	Rahul S	III/CSE	36	100	22	88	94
71.	811216104030	Revathi N	III/CSE	36	100	22	88	94
72.	811216104031	Saranya A	III/CSE	36	100	20	80	90
73.	811216104032	Saranya M	III/CSE	33	92	20	80	86
74.	811216104033	Saravanan M	III/CSE	36	100	15	60	80
75.	811216104034	Sharun Prabu A	III/CSE	36	100	19	76	88
76.	811216104035	Soundharya J	III/CSE	36	100	22	88	94
77.	811216104036	Tamilselvam M	III/CSE	36	100	18	72	86

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Academic Year 2018-2019 – Odd Semester

S.No.	Reg.No	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
78.	811216104038	Tharik A	III/CSE	36	100	21	84	92
79.	811216104039	Varsha S	III/CSE	36	100	18	72	86
80.	811216104040	Vigneshwarachari S	III/CSE	36	100	17	68	84
81.	811216104041	Vijayalakshmi M	III/CSE	36	100	16	64	82
82.	811216104042	Vijayalakshmi P	III/CSE	36	100	16	64	82
83.	811216104043	Vinitha M	III/CSE	36	100	20	80	90
84.	811216104044	Vinitha Devi P	III/CSE	36	100	20	80	90
85.	811216104045	Yogeshwaran S	III/CSE	36	100	22	88	94
86.	811216104046	Yuvasri T	III/CSE	36	100	17	68	84
87.	811217104001	Aarthi J	II/CSE	36	100	19	76	88
88.	811217104002	Deepika N	II/CSE	36	100	19	76	88
89.	811217104003	Dhanalakshmi R	II/CSE	36	100	20	80	90
90.	811217104004	Goadhar Fathima S	II/CSE	36	100	16	64	82


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Academic Year 2018-2019 – Odd Semester

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				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
91.	811217104005	Gowtham Raaj K	II/CSE	36	100	16	64	82
92.	811217104007	Jeya Pratha A	II/CSE	36	100	22	88	94
93.	811217104008	Jickson S	II/CSE	36	100	18	72	86
94.	811217104009	Kamatchi V	II/CSE	36	100	22	88	94
95.	811217104010	Kokila V	II/CSE	36	100	22	88	94
96.	811217104011	Lakshmi Priya M	II/CSE	30	83	20	80	82
97.	811217104012	Naveen R	II/CSE	36	100	20	80	90
98.	811217104013	Panneer Selvam R	II/CSE	36	100	20	80	90
99.	811217104014	Princy Deepa X	II/CSE	36	100	20	80	90
100	811217104015	Raghul L	II/CSE	36	100	15	60	80
101	811217104016	Salma Banu M	II/CSE	33	92	19	76	84
102	811217104017	Seebika M	II/CSE	36	100	22	88	94
103	811217104019	Siva Sankari S	II/CSE	33	92	18	72	82

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Academic Year 2018-2019 – Odd Semester

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				No. of Hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
104	811217104020	Swathi M	II/CSE	33	92	17	68	80
105	811217104022	Vasuki M .	II/CSE	36	100	18	72	86
106	811217104023	Yogesh Kannan P H	II/CSE	36	100	17	68	84
107	811217405001	Padmadevi A	II/M.E	36	100	16	64	82
108	811217405002	Panimalar V	II/M.E	36	100	16	64	82
109	811217405003	Sankari R	II/M.E	36	100	20	80	90
110	811217405004	Shanmuga Priya M	II/M.E	36	100	20	80	90
111	811217405005	Suganya A	II/M.E	36	100	22	88	94
112	811218405001	Aswini. M	I/M.E	36	100	17	68	84
113	811218405002	Gwendolyn Rosetta.G	I/M.E	36	100	19	76	88
114	811218405003	Harish.V	I/M.E	36	100	19	76	88
115	811218405004	Nirmala.N	I/M.E	36	100	20	80	90

A. Gopal
VAC Coordinator

D. Prudh
HoD/CSE

(Signature)
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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Department of Computer Science & Engineering

Academic Year 2018-2019 – Odd Semester

Report on Value Added Course

Title: **Data Mining**

Resource Person: **Mr. A.R.Sooriyaoli, Managing Director, Blue Fire Xperts Infotech OPC Pvt Ltd, Trichy,** **Mr. V.Roshan Trainer Blue Fire Xperts Infotech OPC Pvt Ltd, Trichy**

Date of conduct from : **17.12.18** To: **22.12.18** Duration: **36 Hours**

Organized Department : **COMPUTER SCIENCE AND ENGINEERING**

Participant Year: **UG-II,III,IV** **PG-I,II** No. of Students Registered : **UG -106 PG - 09 TOTAL- 115**

Venue: **SD LAB & NETWORK LAB IGCE**

Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

- Know the concepts of functionality of the various data mining and data warehousing component
- Appreciate the strengths and limitations of various data mining and data warehousing model .
- Know the concept of Explain the analyzing techniques of various data .
- Describe different methodologies used in data mining and data ware housing
- Compare different approaches of data ware housing and data mining

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 * Attendance in VAC out of 100 percentage + 0.5 * Test mark in VAC out of 100 marks)

[Signature]
VAC Coordinator

[Signature]
HoD/CSE

[Signature]
Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Department of Computer Science & Engineering

Academic Year 2018-2019 – Odd Semester

Report on Value Added Course

Title: **Data Mining**

Resource Person:

Mr. A.R.Sooriyaoli,
Managing Director,
Blue Fire Xperts Infotech OPC Pvt
Ltd, Trichy

Mr. V.Roshan
Trainer

Blue Fire Xperts Infotech OPC Pvt
Ltd, Trichy

Date of conduct from : **17.12.2018**

To: **22.12.2018**

Duration: **36 Hours**

Organized Department : **COMPUTER SCIENCE AND ENGINEERING**

Participant Year:

UG-II,III,IV
PG-I,II

No. of Students Registered :

UG -106
PG - 09
TOTAL-115

Venue: **SD LAB & NETWORK LAB**
IGCE

Sample Photo



A. Gethal
VAC Coordinator

D. Puddal
HoD/CSE

[Signature]
Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Jothika R** of

..... **III YEAR CSE** has successfully completed the Value Added Course on Data Mining organized by Department of Computer Science and Engineering and Blue Fire Xperts Infotech from 17th DECEMBER 2018 to 15th DECEMBER 2018 (6 days) during the Academic year 2018-2019.

A.R. Sooriyaoli,
Managing Director,
Blue Fire Xperts Infotech

PRINCIPAL

Dr. G. Baiakrishnan, M.E., Ph.D.,
Principal
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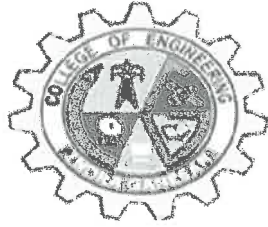
CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Sharun Prabu A** of
..... **III YEAR CSE** has successfully completed the Value Added Course on Data Mining
organized by Department of Computer Science and Engineering in association with Blue Fire Xperts Infotech
OPC Pvt Ltd, from 17th Dec 2018 to 22th Dec 2018.

Blue Fire Xperts
Infotech OPC Pvt Ltd,
A.R. Sooriyaoli
Managing Director

PRINCIPAL

IGCE G. Balakrishnan, M.E., Ph.D.,
Principal
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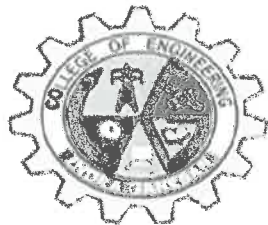
CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Saranya M**..... of
..... **III YEAR CSE**..... has successfully completed the Value Added Course on Data Mining
organized by Department of Computer Science and Engineering in association with Blue Fire Xperts Infotech
OPC Pvt Ltd, from 17th Dec 2018 to 22th Dec 2018.

Blue Fire Xperts
Infotech OPC Pvt Ltd,
A.R. Sooriyaoli
Managing Director

Dr. G. Balakrishnan, M.E., Ph.D.,
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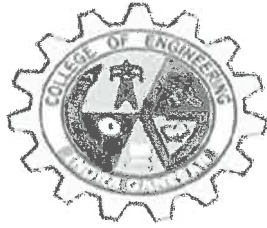
CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Saranya A**..... of
..... **III YEAR CSE**..... has successfully completed the Value Added Course on Data Mining
organized by Department of Computer Science and Engineering in association with Blue Fire Xperts Infotech
OPC Pvt Ltd, from 17th Dec 2018 to 22th Dec 2018.

Blue Fire Xperts
Infotech OPC Pvt Ltd,
A.R. Sooriyaoli
Managing Director

Dr. G. Balakrishnan, M.E., Ph.D.,
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Revathi N**..... of
..... **III YEAR CSE**..... has successfully completed the Value Added Course on Data Mining
organized by Department of Computer Science and Engineering in association with Blue Fire Xperts Infotech
OPC Pvt Ltd, from 17th Dec 2018 to 22th Dec 2018.

Blue Fire Xperts
Infotech OPC Pvt Ltd,
A. R. Sooriyaoli
Managing Director

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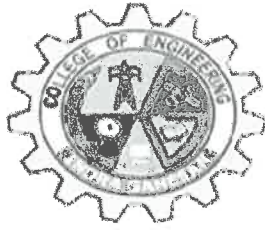
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This is to certify that Mr/Ms. **Rahul S** of
..... **III YEAR CSE** has successfully completed the Value Added Course on Data Mining
organized by Department of Computer Science and Engineering in association with Blue Fire Xperts Infotech
OPC Pvt Ltd, from 17th Dec 2018 to 22th Dec 2018.

Blue Fire Xperts
Infotech OPC Pvt Ltd,
A.R. Sooriyaoli
Managing Director

Dr. G. Baiakti
Principal
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This is to certify that Mr/Ms. **Seebika M**..... of
..... **II YEAR CSE**..... has successfully completed the Value Added Course on Data Mining
organized by Department of Computer Science and Engineering in association with Blue Fire Xperts Infotech
OPC Pvt Ltd, from 17th Dec 2018 to 22th Dec 2018.

Blue Fire Xperts
Infotech OPC Pvt Ltd,
A.R. Sooriyaoli
Managing Director

Dr. G. Balakrishnan, M.E., Ph.D.,
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Madurai, Tamil Nadu - 625 012.

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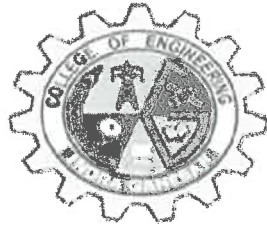
CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **Deepika N** of
..... **II.YEAR.CSE** has successfully completed the Value Added Course on Data Mining organized by Department of Computer Science and Engineering and Blue Fire Xperts Infotech from 17th DECEMBER 2018 to 15th DECEMBER 2018 (6 days) during the Academic year 2018-2019.

A.R. Sooriyaoli,
Managing Director,
Blue Fire Xperts Infotech

Dr. G. Balakrishnan, M.E., Ph.D.,
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This is to certify that Mr/Ms. **Salma Banu M** of
..... **II YEAR CSE** has successfully completed the Value Added Course on Data Mining
organized by Department of Computer Science and Engineering in association with Blue Fire Xperts Infotech
OPC Pvt Ltd, from 17th Dec 2018 to 22th Dec 2018.

Blue Fire Xperts
Infotech OPC Pvt Ltd,
A.R. Sooriyaoli
Managing Director

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This is to certify that Mr/Ms. **Naveen R** of
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Managing Director

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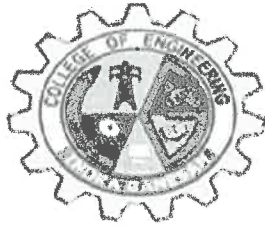
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This is to certify that Mr/Ms.**Giridharani.S**..... of
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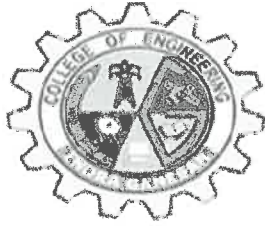
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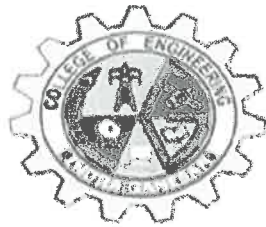
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This is to certify that Mr/Ms. **Abhinaya. R** of
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This is to certify that Mr/Ms. **Padmadevi A** of
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