SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Kaikkurichi, Pudukkottai -622 303

www.sbec.edu.in

NAAC DOCUMENTS

Quality Indicator Frame Work

Criterion – 2

Teaching-Learning and Evaluation

Submitted by

IQAC

Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.3. Teaching- Learning Process (40)

2021-2022

COMPUTER SCIENCE AND ENGINEERING

PARTICIPATIVE LEARNING

Activity	Number of Students attended	Page No.
Value Added Course (VAC)	140	3
Symposium and Conference	25	60
TOTAL STUDENTS ATTENDED	165	-

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.3. Teaching- Learning Process (40)

2021-2022

COMPUTER SCIENCE AND ENGINEERING

PARTICIPATIVE LEARNING

VALUE ADDED COURSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Date: 03 / 08 /2021

DEPARTMENT CIRCULAR

A Value added course on "**Machine Learning with Python** " will be conducted by **Rooboo Tech Software Development and Training Institute, Chennai** in the college campus for all Second year, Third year and Final Year CSE students from 09/08/2021 to 13/08/2021.Certificates will be issued to eligible participants at the end of the course..
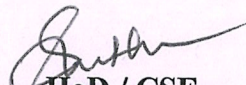
S.No.	Name of the Course	Resource Person
1.	Machine Learning with Python	**Resource Person 1 :** Mr. K.Marimuthu Master Trainer **Rooboo Tech** **Resource Person 2 :** Ms.D.Janani Master Trainer **Rooboo Tech**

CC:

- Principal's office
- IQAC Coordinator
- Class In charges –II,III,IV year
- CSE Students–II,III,IV year
- Notice Board

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
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Kaikkurchi - 622 303, Pudukkottai Dt.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Value Added Course on "Machine Learning with Python"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE FN/AN
1	Introduction to Machine learning – Python for Machine Learning – Supervised Vs Unsupervised	3	09.08.2021
2	Introduction to Regression – Simple Linear Regression – Model Evaluation in Regression Models – Evaluation Metrics in Regression Models – Multiple Linear Regression	3	09.08.2021
3	Introduction to Classification – K-Nearest Neighbours – Evaluation Metrics in Classification – Introduction to Decision Trees- Building Decision Tres	3	10.08.2021
4	Introduction to Logistic Regression – Logistic Regression Vs Linear Regression – Logistic Regression Training	3	10.08.2021
5	Support Vector Machine - Kernel SVM - Classification Models Performance	3	11.08.2021
6	Simple Linear Regression - Multiple Linear Regression - Polynomial Regression - Support Vector Regression -	3	11.08.2021
7	Decision Tree Regression - Random Forest Regression - Regression Models Performance	3	12.08.2021
8	Introduction to clustering – Introduction to K- Means Algorithm - Hierarchical Clustering	3	12.08.2021
9	Natural Language Processing - Dimensionality Reduction - Principal Component Analysis -	3	13.08.2021
10	Linear Discriminate Analysis - Kernel PCA	3	13.08.2021
	Total Hours :	**30**	

VAC Coordinator

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER
Value Added Course on "Machine Learning with Python"

STUDENTS PARTICIPATION LIST-VAC PROGRAM

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1	912618104001	ABIRAMI S	IV / CSE
2	912618104002	AKILA P	IV / CSE
3	912618104003	BUVANESHWARI S	IV / CSE
4	912618104004	EVANJELIN S	IV / CSE
5	912618104005	FEFINA I	IV / CSE
6	912618104007	GOWSALYA A	IV / CSE
7	912618104011	JAYANTHINI T	IV / CSE
8	912618104012	KAVIYASELVI K	IV / CSE
9	912618104013	KOWSALYA S	IV / CSE
10	912618104014	LAKSHMI N	IV / CSE
11	912618104015	LAKSHMI PRABHA M	IV / CSE
12	912618104017	MALA S	IV / CSE
13	912618104018	MAMTHA G	IV / CSE
14	912618104019	NIRANJANADEVI C	IV / CSE
15	912618104020	NIVEDHA M	IV / CSE
16	912618104021	NIVETHA G	IV / CSE
17	912618104022	PRIYADHARSHINI R	IV / CSE
18	912618104023	PRIYAVATHANI A	IV / CSE
19	912618104024	PUVIYARASI S	IV / CSE

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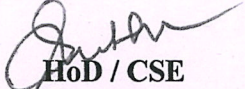COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

20	912618104025	RASMI J	IV / CSE
21	912618104026	ROSLINA BEGUM R	IV / CSE
22	912618104027	SINDHU V	IV / CSE
23	912618104028	SIVASANGAVI A	IV / CSE
24	912618104029	SURUTHIKA S	IV / CSE
25	912618104031	SUSHMEENA K	IV / CSE
26	912619104001	ANNAPOORANI M	III / CSE
27	912619104003	ARUNNAVAMEENA A	III / CSE
28	912619104004	DAYANA P	III / CSE
29	912619104005	DHARSHINI D	III / CSE
30	912619104007	FAHMIDHA B	III / CSE
31	912619104009	GULNAS FATHIMA S	III / CSE
32	912619104010	HELAN J	III / CSE
33	912619104011	KEERTHANA R	III / CSE
34	912619104012	MUTHULAKSHMI G	III / CSE
35	912619104013	MUTHU MEENAKSHI M	III / CSE
36	912619104014	NIROSHIKA R	III / CSE
37	912619104017	PARAMESHWARI S	III / CSE
38	912619104019	RANJANI K	III / CSE
39	912619104020	RILWANA PARVEEN J	III / CSE
40	912619104021	ROOPINA R	III / CSE
41	912619104022	SANDHIYA B	III / CSE
42	912619104023	SANTHI D	III / CSE
43	912619104024	SARANYA C	III / CSE
44	912619104027	SNEHA R	III / CSE
45	912619104029	SURIYA JOTHI S	III / CSE
46	912619104301	ABINAYA S	III / CSE

47	912619104501	ISWARYA C	III / CSE
48	912620104001	AKALYA S	II / CSE
49	912620104002	HEMA V	II / CSE
50	912620104003	ISWARYA R	II / CSE
51	912620104004	KALAIVANI S	II / CSE
52	912620104005	KALPANA K	II / CSE
53	912620104006	MAHALAKSHMI P	II / CSE
54	912620104007	MEIYYAMMAL M	II / CSE
55	912620104008	NANDHINI P	II / CSE
56	912620104009	PRASANNA DEVI P	II / CSE
57	912620104010	PRISHIYA E	II / CSE
58	912620104012	ROSAMMAL M	II / CSE
59	912620104013	ROSHIKA K	II / CSE
60	912620104014	SABHA AYSHA S	II / CSE
61	912620104015	SATHIYASRI P	II / CSE
62	912620104016	SIVAGAMI D	II / CSE
63	912620104017	SIVAHARINI S	II / CSE
64	912620104018	SUBASHINI C	II / CSE
65	912620104019	SUBASHINI M	II / CSE
66	912620104020	SWETHA D	II / CSE
67	912620104021	VANATHI T	II / CSE
68	912620104022	VINCIYA MARY S	II / CSE
69	912620104301	AARTHI P	II / CSE
70	912620104303	JANANI B	II / CSE
71	912620104304	VAISHNAVI R	II / CSE

VAC Coordinator

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Value Added Course on "Machine Learning with Python"

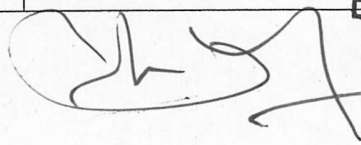| S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	DATE 09.08.21		DATE 10.08.21		DATE 11.08.21		DATE 12.08.21		DATE 13.08.21		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	912618104001	ABIRAMI S	IV / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Abirami
2	912618104002	AKILA P	IV / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Akila
3	912618104003	BUVANESHWARI S	IV / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Buvana
4	912618104004	EVANJELIN S	IV / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Evan
5	912618104005	FEFINA I	IV / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Fefina
6	912618104007	GOWSALYA A	IV / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Gowsalya
7	912618104011	JAYANTHINI T	IV / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	T. Jayanthini
8	912618104012	KAVIYASELVI K	IV / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Kavi
9	912618104013	KOWSALYA S	IV / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Kowsalya
10	912618104014	LAKSHMI N	IV / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Lakshmi

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11	912618104015	LAKSHMI PRABHA M	IV / CSE	/	/	a	a	/	/	/	/	/	/	08	Lakrabhy.
12	912618104017	MALA S	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	S.Mala
13	912618104018	MAMTHA G	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	G. Mamth
14	912618104019	NIRANJANADEVI C	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Niranjanadevi
15	912618104020	NIVEDHA M	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Nivy
16	912618104021	NIVETHA G	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Nivetha.
17	912618104022	PRIYADHARSHINI R	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Priya
18	912618104023	PRIYAVATHANI A	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Priyavathani
19	912618104024	PUVIYARASI S	IV / CSE	a	a	/	/	/	/	/	/	/	/	08	Puviyeuf.
20	912618104025	RASMI J	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Ras
21	912618104026	ROSLINA BEGUM R	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Roslie
22	912618104027	SINDHU V	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Sindhu
23	912618104028	SIVASANGAVI A	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Sivagavi
24	912618104029	SURUTHIKA S	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Suk
25	912618104031	SUSHMEENA K	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	STuy.
26	912619104001	ANNAPOORANI M	III / CSE	/	/	/	/	/	/	/	/	/	/	10	M. Annapoorani
27	912619104003	ARUNNAVAMEENA A	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Arunnavam
28	912619104004	DAYANA P	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Dayana
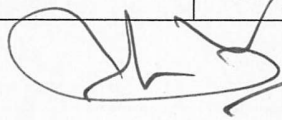
S.No	Register No	Name	Class											Total	Signature
29	912619104005	DHARSHINI D	III / CSE	a	a	/	/	/	/	/	/	/	/	08	Dharshini
30	912619104007	FAHMIDHA B	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Fay
31	912619104009	GULNAS FATHIMA S	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Gulnasfat
32	912619104010	HELAN J	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Helan
33	912619104011	KEERTHANA R	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Keerth
34	912619104012	MUTHULAKSHMI G	III / CSE	/	/	a	a	/	/	/	/	/	/	08	Muth
35	912619104013	MUTHU MEENAKSHI M	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Mee
36	912619104014	NIROSHIKA R	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Niroshika.
37	912619104017	PARAMESHWARI S	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Paramshy
38	912619104019	RANJANI K	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Ranjani
39	912619104020	RILWANA PARVEEN J	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Ranh. m
40	912619104021	ROOPINA R	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Roni
41	912619104022	SANDHIYA B	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Sandhi
42	912619104023	SANTHI D	III / CSE	/	/	/	/	/	/	/	/	/	/	10	San
43	912619104024	SARANYA C	III / CSE	a	a	/	/	/	/	/	/	/	/	08	S
44	912619104027	SNEHA R	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Sneha
45	912619104029	SURIYA JOTHI S	III / CSE	/	/	/	/	/	/	/	/	/	/	10	S.Joy
46	912619104301	ABINAYA S	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Abi

S.No	Register No	Name	Year / Dept											Total	Signature
47	912619104501	ISWARYA C	III / CSE	/	/	/	/	/	/	/	/	/	/	10	
48	912620104001	AKALYA S	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
49	912620104002	HEMA V	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
50	912620104003	ISWARYA R	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
51	912620104004	KALAIVANI S	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
52	912620104005	KALPANA K	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
53	912620104006	MAHALAKSHMI P	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
54	912620104007	MEIYYAMMAL M	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
55	912620104008	NANDHINI P	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
56	912620104009	PRASANNA DEVI P	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
57	912620104010	PRISHIYA E	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
58	912620104012	ROSAMMAL M	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
59	912620104013	ROSHIKA K	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
60	912620104014	SABHA AYSHA S	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
61	912620104015	SATHIYASRI P	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
62	912620104016	SIVAGAMI D	II / CSE	/	/	/	/	/	/	/	/	/	/	10	
63	912620104017	SIVAHARINI S	II / CSE	/	/	/	/	a	a	/	/	/	/	08	
64	912620104018	SUBASHINI C	II / CSE	/	/	/	/	/	/	/	/	/	/	10	

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65	912620104019	SUBASHINI M	II / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Subhi.
66	912620104020	SWETHA D	II / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Swetha
67	912620104021	VANATHI T	II / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	T.Vathi
68	912620104022	VINCIYA MARY S	II / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	S.Vinciya
69	912620104301	AARTHI P	II / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Aarthi
70	912620104303	JANANI B	II / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Jay
71	912620104304	VAISHNAVI R	II / CSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Vaish

VAC Coordinator

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Report on Value Added Course

Title:	Machine Learning with Python

Resource Person:	**Resource Person 1 :** Mr. K.Marimuthu Master Trainer **Rooboo Tech**	**Resource Person 2 :** Ms.D.Janani Master Trainer **Rooboo Tech**

Date of conduct from :	**09.08.2021**	To:	**13.08.2021**	Duration:	**30 Hours**

Organized Department :	**COMPUTER SCIENCE AND ENGINEERING**

Participant Year:	2,3,4(CSE)	Semester:	**ODD**	No. of Students Registered :	71

Venue:	**Auditorium**

Outcome of Value Added Course (VAC)
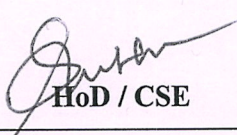
At the end of the VAC course the student can able to

➢ Describe the various types of Machine Learning algorithms and when to use them.

➢ Compare and contrast linear classification methods including multiclass prediction, support vector machines, and logistic regression.

➢ Write Python code that implements various classification techniques including K-Nearest neighbors (KNN), decision trees, and regression trees.

➢ Evaluate the results from simple linear, non-linear, and multiple regression on a data set using evaluation metric.

Assessment Process

- Students securing **more than 60% 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)

VAC Coordinator   **HoD / CSE**   **Principal**

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KAIKKURCHI - 622 303.
PUDUKKOTTAI DISTRICT

ROOBOO TECH
SOFTWARE TRAINING INSTITUTE

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Certificate of Completion

This is to certify that Ms. J. RASMI is studying III CSE at Sri Bharathi Engineering College for Women has successfully completed her value added course titled **Machine Learning with Python** during the period from 09.08.2021 to 13.08.2021.

Managing Director
ROOBOO

Dr. S.THILAGAVATHI M.E., Ph.D.,
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SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

Principal
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This is to certify that **Ms. R. ROOPINA** is studying **II CSE** at *Sri Bharathi Engineering College for Women* has successfully completed her value added course titled **Machine Learning with Python** during the period from 09.08.2021 to 13.08.2021.

Managing Director
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Dr. S. THILAGAVATHI M.E., Ph.D.,
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This is to certify that *Ms.M.RUPASRI* is studying *IV IT* at *Sri Bharathi Engineering College for Women* has successfully completed her value added course titled **Machine Learning with Python** during the period from *09.08.2021* to *13.08.2021*.

Managing Director
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Dr. S.THILAGAVATHI M.E., Ph.D.,
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Certificate of Completion

This is to certify that *Ms.S.AKILA* is studying *IV CSE* at *Sri Bharathi Engineering College for Women* has successfully completed her value added course titled **Machine Learning with Python** during the period from *09.08.2021* to *13.08.2021*.

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER
Value Added Course on "Machine Learning with Python"

Name of the Student :   **Year/Sem:**

AU Register Number:

MCQ QUESTIONS (25X1 = 25 Marks)

1.Type of matrix decomposition model is_____
   a) predictive model   c) logical model

   b) descriptive model   d) None

2. PCA is_____
   a) backward feature selection   c) feature extraction

   b) forward feature selection   d) None of these

3. Supervised learning and unsupervised clustering both require which is correct according to the statement.
   a) input attribute   c) output attribute

   b) hidden attribute   d) categorical attribute

4. Following are the types of supervised learning_____
   a) regression   c) subgroup discovery

   b) classification   d) All of above

5. A feature F1 can take certain value: A, B, C, D, E, & F and represents grade of students from a college. Here feature type is_____
   a) ordinal   c) categorical

   b) nominal   d) boolean

6. Following is powerful distance metrics used by Geometric model_____
   a) manhattan distance   1. c) All of above

   2. b) euclidean distance   3. d) None of above

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7. The output of training process in machine learning is_____
    a) machine learning algorithm   1. c) null

    2. b) machine learning model   3. d) accuracy

8. Which of the following is a good test dataset characteristic?
    a) is representative of the dataset as a whole   c) All of above
    b) large enough to yield meaningful results   1. d) None of above

    2.
9. Which of the following techniques would perform better for reducing dimensions of a data set?
    a) removing columns which have high variance in data   c) removing columns with dissimilar data trends

    b) removing columns which have too many missing value   d) None of the above

10. What characterize is hyperplane in geometrical model of machine learning?
    1. a) a plane with 1 dimensional fewer than number of input attributes   2. c) a plane with 2 dimensional more than number of input attributes

    b) a plane with 1 dimensional more than number of input attributes   1. d) a plane with 2 dimensional fewer than number of input attributes

11. You are given reviews of few Netflix series marked as positive, negative and neutral. Classifying reviews of a new netflix series is an example of_____
    1. a) unsupervised learning   1. c) supervised learning

    2. b) semi supervised learning   3. d) reinforcement learning

12. Like the probabilistic view, the _____ view allows us to associate a probability of membership with each classification
    a) deductive   c) classical

    b) exampler   d) inductive

13. The problem of finding hidden structure in unlabeled data is called_____
    1. a) unsupervised learning   1. c) supervised learning

    2. b) reinforcement learning   3. d) None

14. If machine learning model output involves target variable then that model is called as_____
    1. a) predictive model   1. c) reinforcement learning

    2. b) descriptive model   3. d) All of above

15. Database query is used to uncover this type of knowledge.
    1. a) hidden
    2. b) shallow
    1. c) deep
    3. d) multidimensional

16. Data used to build a data mining model.
    1. a) training data
    2. b) hidden data
    1. c) test data
    3. d) validation data

17. Application of machine learning methods to large databases is called_____
    1. a) big data computing
    2. b) artificial intelligence
    1. c) data mining
    3. d) internet of things

18. Which learning Requires Self Assessment to identify patterns within data?
    1. a) supervised learning
    3. b) semi supervised learning
    2. c) unsupervised learning
    4. d) reinforced learning

19. In simple term, machine learning is_____
    1. a) prediction to answer a query
    2. b) training based on historical data
    1. c) All of above
    3. d) None of above

20. Of the Following Examples, Which would you address using an supervised learning Algorithm?
    1. a) given a set of news articles found on the web, group them into set of articles about the same story
    2. c) given a database of customer data, automatically discover market segments and group customers into different market segments

    b) given email labeled as spam or not spam, learn a spam filter
    1. d) find the patterns in market basket analysis

21. If machine learning model output doesn't involves target variable then that model is called as_____
    1. a) predictive model
    2. b) descriptive model
    1. c) reinforcement learning
    3. d) all of the above

22. In what type of learning labelled training data is used_____
    1. a) supervised learning
    2.
    4. b) unsupervised learning
    3. c) reinforcement learning
    1. d) active learning

23. In the example of predicting number of babies based on stork's population, Number of babies is_____

    1. a) feature

    2. b) observation

    1. c) outcome

    3. d) attribute

24. Following are the descriptive models_____

    a)

    b)

    c)

    d)

    1. classification
    2. clustering
    3. association rule
    4. Both 1 and 2

25. In following type of feature selection method we start with empty feature set_____

    1. a) backward feature selection

    2. b) forward feature selection

    1. c) All of above

    3. d) None of above

Dr. S.THILAGAVATHI M.E., Ph.D.,
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COLLEGE FOR WOMEN
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VAC Coordinator

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Value Added Course on "Machine Learning with Python"

ANSWER KEY

1	b	6	c	11	c	16	a	21	b
2	c	7	b	12	d	17	c	22	a
3	a	8	c	13	a	18	c	23	c
4	d	9	b	14	a	19	c	24	d
5	a	10	d	15	d	20	a	25	b

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER
Valu Value Added Course on "Machine Learning with Python"

Name of the Student : S. Sivaharini   **Year/Sem:** II / 03

AU Register Number: 9 1 2 6 2010 4 17

MCQ QUESTIONS (25X1 = 25 Marks)

1. Type of matrix decomposition model is_____
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    b) given email labeled as spam or not spam, learn a spam filter
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Value Added Course on "Machine Learning with Python"

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	ATTENDANCE DETAILS		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No of Sessions Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	912618104001	ABIRAMI S	IV / CSE	10	100	22	88	94
2	912618104002	AKILA P	IV / CSE	10	100	23	92	96
3	912618104003	BUVANESHWARI S	IV / CSE	10	100	22	88	94
4	912618104004	EVANJELIN S	IV / CSE	10	100	20	80	90
5	912618104005	FEFINA I	IV / CSE	10	100	19	76	88
6	912618104007	GOWSALYA A	IV / CSE	10	100	17	68	84
7	912618104011	JAYANTHINI T	IV / CSE	10	100	19	76	88

				10	100	21	84	92
8	912618104012	KAVIYASELVI K	IV / CSE					
9	912618104013	KOWSALYA S	IV / CSE	10	100	22	88	94
10	912618104014	LAKSHMI N	IV / CSE	10	100	24	96	98
11	912618104015	LAKSHMI PRABHA M	IV / CSE	8	80	22	88	84
12	912618104017	MALA S	IV / CSE	10	100	22	88	94
13	912618104018	MAMTHA G	IV / CSE	10	100	23	92	96
14	912618104019	NIRANJANADEVI C	IV / CSE	10	100	21	84	92
15	912618104020	NIVEDHA M	IV / CSE	10	100	24	96	98
16	912618104021	NIVETHA G	IV / CSE	10	100	22	88	94
17	912618104022	PRIYADHARSHINI R	IV / CSE	10	100	17	68	84
18	912618104023	PRIYAVATHANI A	IV / CSE	10	100	19	76	88
19	912618104024	PUVIYARASI S	IV / CSE	8	80	22	88	84
20	912618104025	RASMI J	IV / CSE	10	100	19	76	88
21	912618104026	ROSLINA BEGUM R	IV / CSE	10	100	24	96	98

				10	100	24	96	98
22	912618104027	SINDHU V	IV / CSE	10	100	24	96	98
23	912618104028	SIVASANGAVI A	IV / CSE	10	100	20	80	90
24	912618104029	SURUTHIKA S	IV / CSE	10	100	23	92	96
25	912618104031	SUSHMEENA K	IV / CSE	10	100	23	92	96
26	912619104001	ANNAPOORANI M	III / CSE	10	100	23	92	96
27	912619104003	ARUNNAVAMEENA A	III / CSE	10	100	21	84	92
28	912619104004	DAYANA P	III / CSE	10	100	21	84	92
29	912619104005	DHARSHINI D	III / CSE	8	80	20	80	80
30	912619104007	FAHMIDHA B	III / CSE	10	100	24	96	98
31	912619104009	GULNAS FATHIMA S	III / CSE	10	100	22	88	94
32	912619104010	HELAN J	III / CSE	10	100	23	92	96
33	912619104011	KEERTHANA R	III / CSE	10	100	22	88	94
34	912619104012	MUTHULAKSHMI G	III / CSE	8	80	21	84	82
35	912619104013	MUTHU MEENAKSHI M	III / CSE	10	100	22	88	94

S.No	Register No	Name	Year / Branch					
36	912619104014	NIROSHIKA R	III / CSE	10	100	23	92	96
37	912619104017	PARAMESHWARI S	III / CSE	10	100	24	96	98
38	912619104019	RANJANI K	III / CSE	10	100	22	88	94
39	912619104020	RILWANA PARVEEN J	III / CSE	10	100	21	84	92
40	912619104021	ROOPINA R	III / CSE	10	100	23	92	96
41	912619104022	SANDHIYA B	III / CSE	10	100	24	96	98
42	912619104023	SANTHI D	III / CSE	10	100	21	84	92
43	912619104024	SARANYA C	III / CSE	8	80	19	76	88
44	912619104027	SNEHA R	III / CSE	10	100	23	92	96
45	912619104029	SURIYA JOTHI S	III / CSE	10	100	20	80	90
46	912619104301	ABINAYA S	III / CSE	10	100	21	84	80
47	912619104501	ISWARYA C	III / CSE	10	100	24	96	98
48	912620104001	AKALYA S	II / CSE	10	100	24	96	98
49	912620104002	HEMA V	II / CSE	10	100	22	88	94
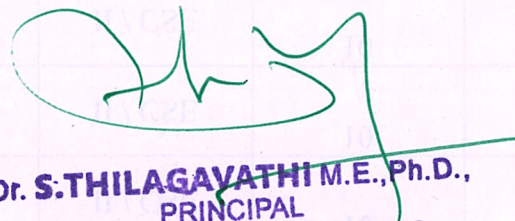
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COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.
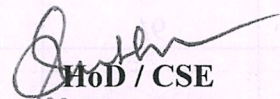
50	912620104003	ISWARYA R	II / CSE	10	100	21	84	92
51	912620104004	KALAIVANI S	II / CSE	10	100	20	80	90
52	912620104005	KALPANA K	II / CSE	10	100	18	72	86
53	912620104006	MAHALAKSHMI P	II / CSE	10	100	19	76	88
54	912620104007	MEIYYAMMAL M	II / CSE	10	100	17	68	84
55	912620104008	NANDHINI P	II / CSE	10	100	23	92	96
56	912620104009	PRASANNA DEVI P	II / CSE	10	100	21	84	92
57	912620104010	PRISHIYA E	II / CSE	10	100	23	92	96
58	912620104012	ROSAMMAL M	II / CSE	10	100	20	80	90
59	912620104013	ROSHIKA K	II / CSE	10	100	21	84	92
60	912620104014	SABHA AYSHA S	II / CSE	10	100	21	84	92
61	912620104015	SATHIYASRI P	II / CSE	10	100	24	96	98
62	912620104016	SIVAGAMI D	II / CSE	10	100	22	88	94
63	912620104017	SIVAHARINI S	II / CSE	8	80	20	80	80

64	912620104018	SUBASHINI C	II / CSE	10	100	21	84	92
65	912620104019	SUBASHINI M	II / CSE	10	100	21	84	92
66	912620104020	SWETHA D	II / CSE	10	100	22	88	94
67	912620104021	VANATHI T	II / CSE	10	100	23	92	96
68	912620104022	VINCIYA MARY S	II / CSE	10	100	23	92	96
69	912620104301	AARTHI P	II / CSE	10	100	24	96	98
70	912620104303	JANANI B	II / CSE	10	100	22	88	94
71	912620104304	VAISHNAVI R	II / CSE	10	100	22	88	94

VAC Coordinator

Dr. S.THILAGAVATHI M.E., Ph.D.,
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PUDUKKOTTAI - 622 303

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<u>ACADEMIC YEAR 2021-2022 / EVEN SEMESTER</u>

Date: 01 / 03 /2022

<u>DEPARTMENT CIRCULAR</u>
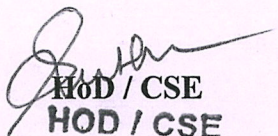
Certificate Course offered by the Department of CSE will be conducted for all Second year, Third year and Final year CSE students on **"R LANGUAGE BASICS"** from 07.03.2022 to 11.03.2022. Certificates will be issued to all the participants at the end of the Course.

S.No.	Name of the Course	Resource Person
1.	**R LANGUAGE BASICS**	Ms. S.Jayapratha AP / CSE

Dr. S.THILAGAVATHI M.E.,Ph.D.,
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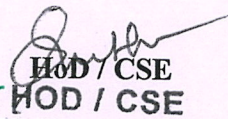
Cc:

- Principal's office
- IQAC Coordinator
- Class In charges – II, III, IV Year
- CSE Students - II, III, IV Year
- Notice Board

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
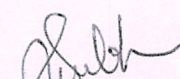
ACADEMIC YEAR 2021-2022 / EVEN SEMESTER
Certificate Course on "R Language Basics"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE FN/AN
1	R interpreter, Introduction to major R data structures like vectors, matrices, arrays, list and data frames	3	07.03.2022
2	Flow control and loops, looping over list and array	3	07.03.2022
3	User-defined functions, Designing GUI	3	08.03.2022
4	Installing, loading different packages for file handling	3	08.03.2022
5	Reading and writing files of different formats using inbuilt packages	3	09.03.2022
6	Using inbuilt packages for data cleaning, Continuing with creating GUI for application, building package	3	09.03.2022
7	Transformation of data for statistical analysis	3	10.03.2022
8	Exploring and summarizing data using statistical methods: mean, median, mode, Using inbuilt packages for database connectivity	3	10.03.2022
9	Exploring and summarizing data using statistical methods: quantiles, Building contingency table, Using inbuilt packages for database connectivity	3	11.03.2022
10	Data visualization using Scatter Plot, line graph, histogram, bar chart, box plot, Building complete application with GUI and database connectivity	3	11.03.2022
	Total Hours :	**30**	

CC Coordinator

HoD / CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

Cerificate Course on "R Languages Basics"

STUDENTS PARTICIPATION LIST-CC PROGRAM

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1	912618104001	ABIRAMI S	IV / CSE
2	912618104002	AKILA P	IV / CSE
3	912618104003	BUVANESHWARI S	IV / CSE
4	912618104004	EVANJELIN S	IV / CSE
5	912618104005	FEFINA I	IV / CSE
6	912618104007	GOWSALYA A	IV / CSE
7	912618104011	JAYANTHINI T	IV / CSE
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10	912618104014	LAKSHMI N	IV / CSE
11	912618104015	LAKSHMI PRABHA M	IV / CSE
12	912618104017	MALA S	IV / CSE
13	912618104018	MAMTHA G	IV / CSE
14	912618104019	NIRANJANADEVI C	IV / CSE
15	912618104020	NIVEDHA M	IV / CSE
16	912618104021	NIVETHA G	IV / CSE
17	912618104022	PRIYADHARSHINI R	IV / CSE
18	912618104023	PRIYAVATHANI A	IV / CSE
19	912618104024	PUVIYARASI S	IV / CSE

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20	912618104025	RASMI J	IV / CSE
21	912618104026	ROSLINA BEGUM R	IV / CSE
22	912618104027	SINDHU V	IV / CSE
23	912618104028	SIVASANGAVI A	IV / CSE
24	912618104029	SURUTHIKA S	IV / CSE
25	912618104031	SUSHMEENA K	IV / CSE
26	912619104001	ANNAPOORANI M	III / CSE
27	912619104003	ARUNNAVAMEENA A	III / CSE
28	912619104004	DAYANA P	III / CSE
29	912619104005	DHARSHINI D	III / CSE
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31	912619104009	GULNAS FATHIMA S	III / CSE
32	912619104010	HELAN J	III / CSE
33	912619104011	KEERTHANA R	III / CSE
34	912619104012	MUTHULAKSHMI G	III / CSE
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44	912619104027	SNEHA R	III / CSE
45	912619104029	SURIYA JOTHI S	III / CSE
46	912619104301	ABINAYA S	III / CSE

47	912620104001	AKALYA S	II / CSE
48	912620104002	HEMA V	II / CSE
49	912620104003	ISWARYA R	II / CSE
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54	912620104009	PRASANNA DEVI P	II / CSE
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58	912620104014	SABHA AYSHA S	II / CSE
59	912620104015	SATHIYASRI P	II / CSE
60	912620104016	SIVAGAMI D	II / CSE
61	912620104017	SIVAHARINI S	II / CSE
62	912620104018	SUBASHINI C	II / CSE
63	912620104019	SUBASHINI M	II / CSE
64	912620104020	SWETHA D	II / CSE
65	912620104021	VANATHI T	II / CSE
66	912620104022	VINCIYA MARY S	II / CSE
67	912620104301	AARTHI P	II / CSE
68	912620104303	JANANI B	II / CSE
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

Certificate Course on "R Language Basics"

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	DATE 07.03.22 FN	AN	DATE 08.03.22 FN	AN	DATE 09.03.22 FN	AN	DATE 10.03.22 FN	AN	DATE 11.03.22 FN	AN	NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
1	912618104001	ABIRAMI S	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Abina
2	912618104002	AKILA P	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Akila P
3	912618104003	BUVANESHWARI S	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Buvangha
4	912618104004	EVANJELIN S	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Eva
5	912618104005	FEFINA I	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Fefina
6	912618104007	GOWSALYA A	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	gown
7	912618104011	JAYANTHINI T	IV / CSE	/	/	/	/	a	a	/	/	/	/	08	T. Jayanthini
8	912618104012	KAVIYASELVI K	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	kavi
9	912618104013	KOWSALYA S	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Kowslya
10	912618104014	LAKSHMI N	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	lakshmi

No	Reg. No	Name	Class											Total	Signature
11	912618104015	LAKSHMI PRABHA M	IV / CSE	/	/	a	a	/	/	/	/	/	/	08	Laprabha
12	912618104017	MALA S	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	S.Mala
13	912618104018	MAMTHA G	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	G.Mamtha
14	912618104019	NIRANJANADEVI C	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Niranjanadevi
15	912618104020	NIVEDHA M	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Nivy
16	912618104021	NIVETHA G	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Nive
17	912618104022	PRIYADHARSHINI R	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	P.Priya
18	912618104023	PRIYAVATHANI A	IV / CSE	a	a	/	/	/	/	/	/	/	/	08	P.Priyavathani
19	912618104024	PUVIYARASI S	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Puviyarasi
20	912618104025	RASMI J	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Ras
21	912618104026	ROSLINA BEGUM R	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Roslina
22	912618104027	SINDHU V	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Sin
23	912618104028	SIVASANGAVI A	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Sivasan
24	912618104029	SURUTHIKA S	IV / CSE	/	/	/	/	/	/	/	/	/	/	10	Suru
25	912618104031	SUSHMEENA K	IV / CSE	/	/	/	/	a	a	/	/	/	/	08	Sus.A
26	912619104001	ANNAPOORANI M	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Annapoorani
27	912619104003	ARUNNAVAMEENA A	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Arunnava
28	912619104004	DAYANA P	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Dayana

No.	Reg. No.	Name	Class											Total	Signature
29	912619104005	DHARSHINI D	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Dharshini
30	912619104007	FAHMIDHA B	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Fur
31	912619104009	GULNAS FATHIMA S	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Gulnfat
32	912619104010	HELAN J	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Helan
33	912619104011	KEERTHANA R	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Keet
34	912619104012	MUTHULAKSHMI G	III / CSE	a	a	/	/	/	/	/	/	/	/	08	Muthy
35	912619104013	MUTHU MEENAKSHI M	III / CSE	/	/	/	/	/	/	/	/	/	/	10	M
36	912619104014	NIROSHIKA R	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Niroshika
37	912619104017	PARAMESHWARI S	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Parmeshy
38	912619104019	RANJANI K	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Kanjanj
39	912619104020	RILWANA PARVEEN J	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Ril. Par
40	912619104021	ROOPINA R	III / CSE	/	/	/	/	/	/	/	/	/	/	10	
41	912619104022	SANDHIYA B	III / CSE	/	/	/	/	/	/	/	/	/	/	10	
42	912619104023	SANTHI D	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Saith
43	912619104024	SARANYA C	III / CSE	/	/	/	/	/	/	/	/	/	/	1.0	
44	912619104027	SNEHA R	III / CSE	/	/	/	/	/	/	/	/	/	/	10	Sneha.
45	912619104029	SURIYA JOTHI S	III / CSE	/	/	/	/	a	a	/	/	/	/	08	S. Juj
46	912619104301	ABINAYA S	III / CSE	/	/	/	/	/	/	/	/	/	/	1.0	Ai

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S.No	Register No	Name	Year/Dept											Total	Signature
47	912620104001	AKALYA S	II / CSE	/	/	/	/	/	/	/	/	/	/	10	S.Akya
48	912620104002	HEMA V	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*
49	912620104003	ISWARYA R	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*
50	912620104004	KALAIVANI S	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*
51	912620104005	KALPANA K	II / CSE	/	/	/	/	/	/	/	/	/	/	10	Kalp.k
52	912620104007	MEIYYAMMAL M	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*
53	912620104008	NANDHINI P	II / CSE	/	/	/	/	/	/	/	/	/	/	10	Nny
54	912620104009	PRASANNA DEVI P	II / CSE	/	/	/	/	/	/	/	/	/	/	10	Prasannadevi
55	912620104010	PRISHIYA E	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*
56	912620104012	ROSAMMAL M	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*
57	912620104013	ROSHIKA K	II / CSE	/	/	/	/	/	/	/	/	/	/	10	Roshika
58	912620104014	SABHA AYSHA S	II / CSE	/	/	/	/	/	/	/	/	/	/	10	S.Sabha
59	912620104015	SATHIYASRI P	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*
60	912620104016	SIVAGAMI D	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*
61	912620104017	SIVAHARINI S	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*
62	912620104018	SUBASHINI C	II / CSE	/	/	/	/	/	/	/	/	/	/	10	Subaj
63	912620104019	SUBASHINI M	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*
64	912620104020	SWETHA D	II / CSE	/	/	/	/	/	/	/	/	/	/	10	*(signature)*

65	912620104021	VANATHI T	II / CSE	/	/	/	/	/	/	/	/	/	/	10	T.Vathi
66	912620104022	VINCIYA MARY S	II / CSE	/	/	/	/	/	/	/	/	/	/	10	S.Vinja
67	912620104301	AARTHI P	II / CSE	a	a	/	/	/	/	/	/	/	/	10	Aathi
68	912620104303	JANANI B	II / CSE	/	/	/	/	/	/	/	/	/	/	10	Jan
69	912620104304	VAISHNAVI R	II / CSE	/	/	/	/	/	/	/	/	/	/	10	Vaih

CC Coordinator

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Report on Certificate Course

Title:	R Language Basics

Resource Person:	Ms. S.Jayapratha AP / CSE

Date of conduct from :	07.03.2022	To:	11.03.2022	Duration:	30 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING				
Participant Year: 2,3,4(CSE)		Semester: EVEN		No. of Students Registered :	69
Venue: Auditorium					

Outcome of Certificate Course (CC)

At the end of the Certificate course the student can able to

Develop an R script and execute it

Install, load and deploy the required packages, and build new packages for sharing and reusability

Extract data from different sources using API and use it for data analysis
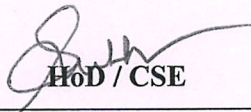
Visualize and summarize the data
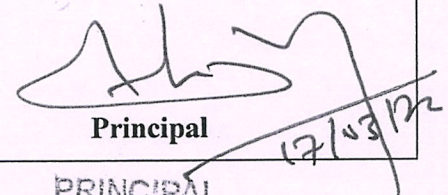
Design application with database connectivity for data analysis

Assessment Process

- Students securing **more than 60% on total score** and secured more than 75% in attendance is eligible to receive the certificate for the CC course conducted
- Total Score = (0.5 *Attendance in CC out of 100 percentage + 0.5 *Test mark in CC out of 100 marks)

CC Coordinator   HoD / CSE   Principal

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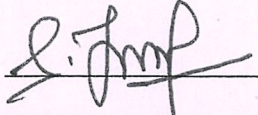
ENGINEERING COLLEGE FOR WOMEN
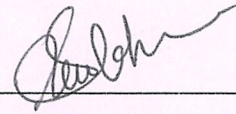
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India
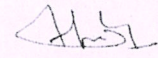
Certificate of Completion

This certificate is awarded to **Ms.G.NIVETHA** of **IV CSE** in recognition of their successful completion of

certificate course on **R LANGUAGE BASICS** during the academic year 2021-2022 even semester.

Course Coordinator

HoD / CSE

Principal

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Certificate of Completion

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Course Coordinator

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Principal

Dr. **S.THILAGAVATHI** M.E.,Ph.D.,
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certificate course on   **R LANGUAGE BASICS** during the academic year 2021-2022 even semester.

Course Coordinator   HoD / CSE   Principal

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER
Certificate Course on "R Language Basics"

Name of the Student :   **Year/Sem:**

AU Register Number:

MCQ QUESTIONS (25X1 = 25 Marks)

1. In 1991, R was created by Ross Ihaka and Robert Gentleman in the Department of Statistics at the University of _____
   a) John Hopkins   b) California
   c) Harvard   d) Auckland

2. Finally, in _____ R version 1.0.0 was released to the public.
   a) 2000   b) 2005
   c) 2010   d) 2012

3. Which of the following describes R language?
   a) Free   b) Paid
   c) Available for free trial only   d) Testing

4. R runs on the _____ operating system.
   a) Linux   b) Windows
   c) Ubuntu   d) Any operating system

5. Which of the following command is used to print an object "x" in R?
   a) printf(x)   b) print(x)
   c) printx   d) print[x]

6. Advanced users can write ___ code to manipulate R objects directly.
   a) C, C++   b) C++, Java
   c) Java, C   d) Java

7. What is NaN called?
   a) Not a Number   b) Not a Numeric
   c) Number and Number   d) Number a Numeric

8. How can we define 'infinity' in R language?
   a) Inf   b) Sup
   c) Und   d) NaN

9. Which of the following is default prompt for UNIX environment?
   a) >   b) >>
   c) <   d) <<

10. What is the length of b?

    b <- 2:7

    a) 4
    b) 5
    c) 6
    d) 0

11. What is the mode of 'a' in the following R code?

    a <- c(1," a", FALSE)

    a) Numeric
    b) Character
    c) Integer
    d) Logical

12. Which language is best for the statistical environment?

    a) C
    b) R
    c) Java
    d) Python

13. The open source _____ software is available for Unix, Linux, and Windows platforms.

    a) Rserve
    b) Bserve
    c) Cserve
    d) Dserve

14. R has many functions regarding _____

    a) Statistics, Biotechnology
    b) Probability, Microbiology
    c) Distributions, Physics
    d) Statistics, Probability, Distributions

15. Which is simpler for statistical programming?

    a) C
    b) Java
    c) R
    d) No language

16. The four most frequently used types of data objects in R are vectors, matrices, data frames and _____

    a) Function
    b) Lists
    c) Packages
    d) Interfaces

17. What is the simplest way of creating the vector?

    a) C function
    b) Create
    c) Destroy
    d) Invalid

18. A _____ is a set of elements appearing in rows and columns where the elements are of the same mode whether they are logical, numeric (integer or double), complex or character.

    a) Vector
    b) Matrix
    c) Lists
    d) Data frames

19. The _____ function creates a regular sequence of values to form a vector.

    a) sequel
    b) Rep
    c) seq
    d) Grep

20. Which of the following is a 3-dimensional dataset?

    a) Eris
    b) Iris
    c) Toris
    d) aris

21. The _____ function takes an arbitrary number of arguments and concatenates them one by one into character strings.

    a) copy()
    b) paste()
    c) bind()
    d) del()

22. What will be the output of the following R code?

```
> x <- c(1, 2, NaN, NA, 4)
> is.na(x)
```
a) FALSE FALSE TRUE TRUE FALSE   b) FALSE TRUE TRUE TRUE FALSE

c) TRUE FALSE TRUE TRUE FALSE   d) TRUE FALSE TRUE FALSE FALSE

23. Which of the following R syntax is correct for while loop?

a) while (statement1) statement2   b) while (statement1) else statement2

c) while (statement1) do statement2   d) while (statement2) doelse statement2

24. _____ is used to break the execution of a loop.

a) next   b) skip

c) break   d) delete

25. What will be the output of the following R code?

```
> x <- c("a", "b", "c", "d")
> for(i in 1:4) {
+ ## Print out each element of 'x'
+ print(x[i])
+ }
```

a)
```
[1] "a"
[1] "b"
[1] "c"
[1] "d"
```

b)
```
[1] "c"
[1] "b"
[1] "a"
[1] "d"
```
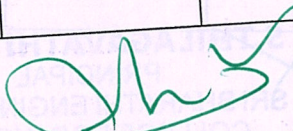
c)
```
[1] "d"
[1] "c"
[1] "b"
[1] "a"
```

d) Error

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CC Coordinator

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

Value Added Course on "R Language Basics"

ANSWER KEY

1	d	6	b	11	b	16	b	21	a
2	a	7	a	12	b	17	a	22	a
3	a	8	a	13	a	18	b	23	a
4	d	9	a	14	d	19	c	24	c
5	b	10	c	15	c	20	b	25	a

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER
Certificate Course on "R Language Basics"

Name of the Student : P. Arthi   **Year/Sem:** II / 04

AU Register Number: 912620104301

MCQ QUESTIONS (25X1 = 25 Marks)

24/25

1. In 1991, R was created by Ross Ihaka and Robert Gentleman in the Department of Statistics at the University of _____
   - a) John Hopkins
   - b) California
   - c) Harvard
   - d) Auckland ✓

2. Finally, in _____ R version 1.0.0 was released to the public.
   - a) 2000 ✓
   - b) 2005
   - c) 2010
   - d) 2012

3. Which of the following describes R language?
   - a) Free ✓
   - b) Paid
   - c) Available for free trial only
   - d) Testing

4. R runs on the _____ operating system.
   - a) Linux
   - b) Windows
   - c) Ubuntu
   - d) Any operating system ✓

5. Which of the following command is used to print an object "x" in R?
   - a) printf(x)
   - b) print(x) ✓
   - c) printx
   - d) print[x]

6. Advanced users can write ___ code to manipulate R objects directly.
   - a) C, C++
   - b) C++, Java ✓
   - c) Java, C
   - d) Java

7. What is NaN called?
   - a) Not a Number ✓
   - b) Not a Numeric
   - c) Number and Number
   - d) Number a Numeric

8. How can we define 'infinity' in R language?
   - a) Inf ✓
   - b) Sup
   - c) Und
   - d) NaN

9. Which of the following is default prompt for UNIX environment?
   - a) > ✓
   - b) >>
   - c) <
   - d) <<

10. What is the length of b?
    - a) 4
    - b) 5
    - c) 6 ✓
    - d) 0

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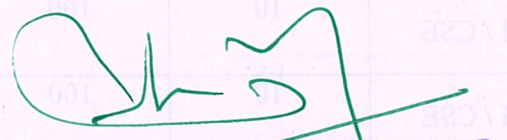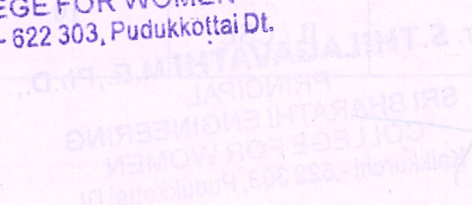11. What is the mode of 'a' in the following R code?
    a) Numeric   b) Character
    c) Integer   d) Logical
12. Which language is best for the statistical environment?
    a) C   b) R
    c) Java   d) Python
13. The open source _____ software is available for Unix, Linux, and Windows platforms.
    a) Rserve   b) Bserve
    c) Cserve   d) Dserve
14. R has many functions regarding _____
    a) Statistics, Biotechnology   b) Probability, Microbiology
    c) Distributions, Physics   d) Statistics, Probability, Distributions
15. Which is simpler for statistical programming?
    a) C   b) Java
    c) R   d) No language
16. The four most frequently used types of data objects in R are vectors, matrices, data frames and

    _____
    a) Function   b) Lists
    c) Packages   d) Interfaces
17. What is the simplest way of creating the vector?
    a) C function   b) Create
    c) Destroy   d) Invalid
18. A _____ is a set of elements appearing in rows and columns where the elements are of
    the same mode whether they are logical, numeric (integer or double), complex or character.
    a) Vector   b) Matrix
    c) Lists   d) Data frames
19. The _____ function creates a regular sequence of values to form a vector.
    a) sequel   b) Rep
    c) seq   d) Grep
20. Which of the following is a 3-dimensional dataset?
    a) Eris   b) Iris
    c) Toris   d) aris
21. The _____ function takes an arbitrary number of arguments and concatenates them one by
    one into character strings.
    a) copy()   b) paste()
    c) bind()   d) del()
22. What will be the output of the following R code?
    a) FALSE FALSE TRUE TRUE FALSE   b) FALSE TRUE TRUE TRUE FALSE
    c) TRUE FALSE TRUE TRUE FALSE   d) TRUE FALSE TRUE FALSE FALSE
23. Which of the following R syntax is correct for while loop?
    a) while (statement1) statement2   b) while (statement1) else statement2
    c) while (statement1) do statement2   d) while (statement2) doelse statement2
24. _____ is used to break the execution of a loop.
    a) next   b) skip
    c) break   d) delete

25. What will be the output of the following R code?
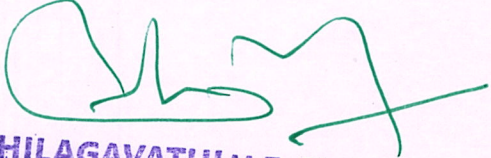
```
> x <- c("a", "b", "c", "d")
> for(i in 1:4) {
+ ## Print out each element of 'x'
+ print(x[i])
+ }
```

a)   [1] "a"
     [1] "b"
     [1] "c"
     [1] "d"

c)   [1] "d"
     [1] "c"
     [1] "b"
     [1] "a"

b) [1] "c"
   [1] "b"
   [1] "a"
   [1] "d"

d) Error

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

Certificate Course on "R Language Basics"

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	ATTENDANCE DETAILS		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No of Sessions Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	912618104001	ABIRAMI S	IV / CSE	10	100	23	92	96
2	912618104002	AKILA P	IV / CSE	10	100	24	96	98
3	912618104003	BUVANESHWARI S	IV / CSE	10	100	24	96	98
4	912618104004	EVANJELIN S	IV / CSE	10	100	22	88	94
5	912618104005	FEFINA I	IV / CSE	10	100	24	96	98
6	912618104007	GOWSALYA A	IV / CSE	10	100	22	88	94
7	912618104011	JAYANTHINI T	IV / CSE	8	80	24	96	94

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No	Register No	Name	Year / Class	Attendance (Mark)	Attendance (100)	MCQ	MCQ (100)	Overall (Mark 100)
8	912618104012	KAVIYASELVI K	IV / CSE	10	100	21	84	92
9	912618104013	KOWSALYA S	IV / CSE	10	100	24	96	98
10	912618104014	LAKSHMI N	IV / CSE	10	100	23	92	96
11	912618104015	LAKSHMI PRABHA M	IV / CSE	10	100	24	96	94
12	912618104017	MALA S	IV / CSE	8	80	24	96	98
13	912618104018	MAMTHA G	IV / CSE	10	100	24	96	98
14	912618104019	NIRANJANADEVI C	IV / CSE	10	100	24	96	98
15	912618104020	NIVEDHA M	IV / CSE	10	100	23	92	96
16	912618104021	NIVETHA G	IV / CSE	10	100	22	88	94
17	912618104022	PRIYADHARSHINI R	IV / CSE	10	100	24	96	98
18	912618104023	PRIYAVATHANI A	IV / CSE	10	100	25	100	90
19	912618104024	PUVIYARASI S	IV / CSE	8	80	24	96	98
20	912618104025	RASMI J	IV / CSE	10	100	23	92	96
21	912618104026	ROSLINA BEGUM R	IV / CSE	10	100	21	84	92

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22	912618104027	SINDHU V	IV / CSE	10	100	23	92	96
23	912618104028	SIVASANGAVI A	IV / CSE	10	100	22	88	94
24	912618104029	SURUTHIKA S	IV / CSE	10	100	21	84	92
25	912618104031	SUSHMEENA K	IV / CSE	8	80	24	96	90
26	912619104001	ANNAPOORANI M	III / CSE	10	100	25	100	100
27	912619104003	ARUNNAVAMEENA A	III / CSE	10	100	23	92	96
28	912619104004	DAYANA P	III / CSE	10	100	24	96	96
29	912619104005	DHARSHINI D	III / CSE	10	100	22	88	94
30	912619104007	FAHMIDHA B	III / CSE	10	100	24	96	98
31	912619104009	GULNAS FATHIMA S	III / CSE	10	100	22	88	94
32	912619104010	HELAN J	III / CSE	10	100	23	92	96
33	912619104011	KEERTHANA R	III / CSE	10	100	20	80	90
34	912619104012	MUTHULAKSHMI G	III / CSE	8	80	25	100	90
35	912619104013	MUTHU MEENAKSHI M	III / CSE	10	100	21	84	92

No	Reg No	Name	Class					
36	912619104014	NIROSHIKA R	III / CSE	10	100	20	80	90
37	912619104017	PARAMESHWARI S	III / CSE	10	100	19	76	88
38	912619104019	RANJANI K	III / CSE	10	100	21	84	92
39	912619104020	RILWANA PARVEEN J	III / CSE	10	100	22	88	94
40	912619104021	ROOPINA R	III / CSE	10	100	24	96	98
41	912619104022	SANDHIYA B	III / CSE	10	100	24	96	98
42	912619104023	SANTHI D	III / CSE	10	100	23	92	96
43	912619104024	SARANYA C	III / CSE	10	100	19	76	88
44	912619104027	SNEHA R	III / CSE	10	100	22	88	94
45	912619104029	SURIYA JOTHI S	III / CSE	8	80	24	96	88
46	912619104301	ABINAYA S	III / CSE	10	100	22	88	94
47	912620104001	AKALYA S	II / CSE	10	100	24	96	98
48	912620104002	HEMA V	II / CSE	10	100	23	92	96
49	912620104003	ISWARYA R	II / CSE	10	100	22	88	94
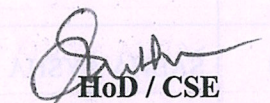
50	912620104004	KALAIVANI S	II / CSE	10	100	22	88	94
51	912620104005	KALPANA K	II / CSE	10	100	23	92	96
52	912620104007	MEIYYAMMAL M	II / CSE	10	100	24	96	98
53	912620104008	NANDHINI P	II / CSE	10	100	23	92	96
54	912620104009	PRASANNA DEVI P	II / CSE	10	100	21	84	92
55	912620104010	PRISHIYA E	II / CSE	10	100	19	76	88
56	912620104012	ROSAMMAL M	II / CSE	10	100	19	76	88
57	912620104013	ROSHIKA K	II / CSE	10	100	20	80	90
58	912620104014	SABHA AYSHA S	II / CSE	10	100	22	88	94
59	912620104015	SATHIYASRI P	II / CSE	10	100	23	92	96
60	912620104016	SIVAGAMI D	II / CSE	10	100	22	88	94
61	912620104017	SIVAHARINI S	II / CSE	10	100	20	80	90
62	912620104018	SUBASHINI C	II / CSE	10	100	23	92	96
63	912620104019	SUBASHINI M	II / CSE	10	100	19	76	88

64	912620104020	SWETHA D	II / CSE	10	100	18	72	86
65	912620104021	VANATHI T	II / CSE	10	100	19	76	88
66	912620104022	VINCIYA MARY S	II / CSE	10	100	21	84	92
67	912620104301	AARTHI P	II / CSE	8	80	24	96	88
68	912620104303	JANANI B	II / CSE	10	100	23	92	96
69	912620104304	VAISHNAVI R	II / CSE	10	100	24	96	98

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HoD / CSE

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.3. Teaching- Learning Process (40)

2021-2022

COMPUTER SCIENCE AND ENGINEERING

PARTICIPATIVE LEARNING

SYMPOSIUM AND WORKSHOP

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
PARTICIPATIVE LEARNING (SYMPOSIUM/WORKSHOP/SEMINAR)

ACADEMIC YEAR (2021 - 2022)

S.No	Register No	Student Name	Year/ Sem	Name of the Participative Learning Method
1.	912619104005	D.Dharshini	III/ V	Workshop - "Centroid of Engineering in AI & ML"
2.	912619104007	B.Fahmidha		
3.	912619104023	D.Santhi		
4.	912619104009	S.Gulnas Fathima		
5.	912619104001	M.Annapoorani	III/ V	"C Programming Quiz"
6.	912619104007	B.Fahmidha		
7.	912619104009	S.Gulnas Fathima		
8.	912619104010	J.Helan		
9.	912620104014	S.Sabhaaysha	II/ III	"C Programming Language"
10.	912619104005	D.Dharshini	III/ VI	National level Contest "TECHNOVATION 22"
11.	912619104007	B.Fahmidha		
12.	912619104009	S.Gulnas Fathima		
13.	912619104013	M.Muthu Meenakshi		
14.	912619104014	R.Niroshika		
15.	912619104021	R,Roopina		
16.	912619104022	B.Sandhiya		
17.	912619104024	C.Saranya		
18.	912619104029	S.Suriyajothi		
19.	912619104007	B.Fahmidha	III/ VI	Symposium - "Q Factorial " Event (ACGCET)
20.	912619104014	R.Niroshika	III/ VI	Symposium - "CODE UTOPIA" Event (ACGCET)
21.	912619104003	S.Aruna Nava Meena	III/ VI	Symposium – Paper Presentation (ACGCET)
22.	912619104009	S.Gulnas fathima		
23.	912619104010	J.Helan		
24.	912619104019	K.Ranjani		
25.	912619104020	J.Rilwana parveen		
26.	912619104021	R.Roopina		
27.	912619104023	D.Santhi		
28.	912619104024	C.Saranya		

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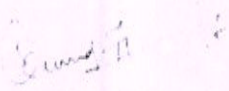Kaikkurchi - 622 303, Pudukkottai Dt.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

THREE DAYS NATIONAL LEVEL WORKSHOP ON "CENTROID OF ENGINEERING IN AI & ML"

Certificate of Participation

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D.DHARSHINI

for participating in the Three Days National Level Workshop on "CENTROID OF ENGINEERING IN AI & ML" organized by the Department of Electronics and Communication Engineering from 12-08-2021 to 14-08-2021

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Dr. R.GAYATHRI
Associate Professor - ECE

Dr.S.MUTHUKUMAR
HOD - ECE

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S.Gulnas Fathima

for participating in the Three Days National Level Workshop on "CENTROID OF ENGINEERING IN AI & ML" organized by the Department of Electronics and Communication Engineering from 12-08-2021 to 14-08-2021

Dr. R.GAYATHRI
Associate Professor - ECE
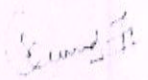
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Certificate of Participation

This is to certify that

Annapoorani. M

from Sri bharathi engineering college for women has
successfully passed the "C Programming Quiz" conducted by
CSE Dept, on Aug 17, 2021

HOD-CSE   PRINCIPAL
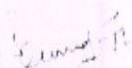
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Certificate of Participation

This is to certify that

B.Fahmidha

from Sri bharathi engineering college for women has
successfully passed the "C Programming Quiz" conducted by
CSE Dept, on Aug 18, 2021

HOD-CSE   PRINCIPAL

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Certificate of Participation
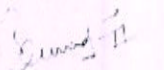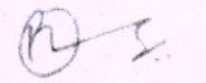
This is to certify that

S.Gulnas Fathima

from Sri Bharathi Engineering College For women has
successfully passed the "C Programming Quiz" conducted by
CSE Dept, on Aug 18, 2021

HOD-CSE   PRINCIPAL

Dr. **S.THILAGAVATHI** M.E.,Ph.D.,
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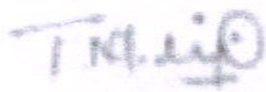Kaikkurchi - 622 303, Pudukkottai Dt.

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Certificate of Participation

This is to certify that

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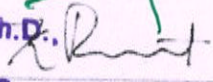
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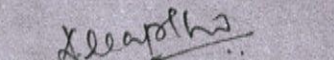
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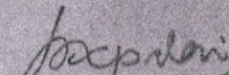Coordinator / AP-CSE

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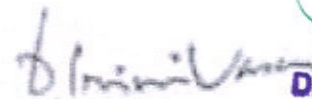
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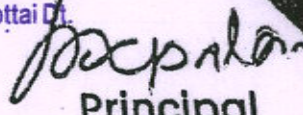
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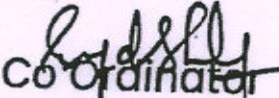GET READY TO BLAZE

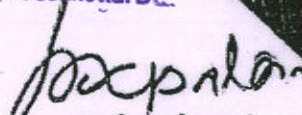A National level Technical Symposium
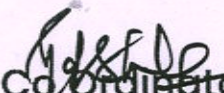
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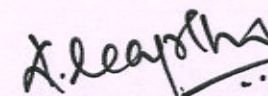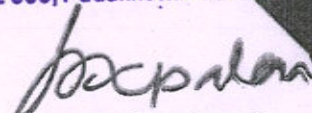
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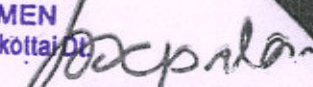
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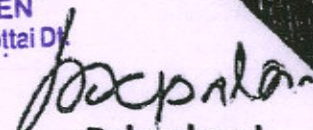
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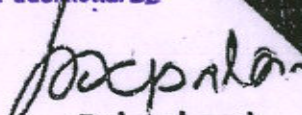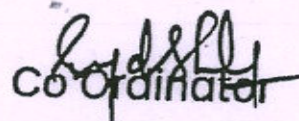A National level Technical Symposium

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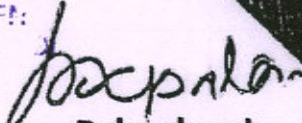
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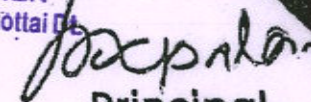A National level Technical Symposium

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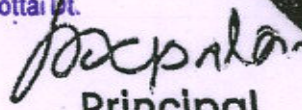
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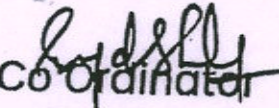proudly presents

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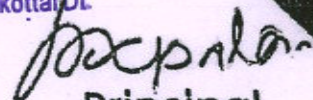
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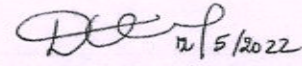ORGANIZES

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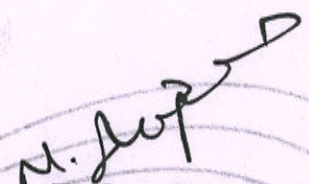## COMPUTER SCIENCE AND ENGINEERING

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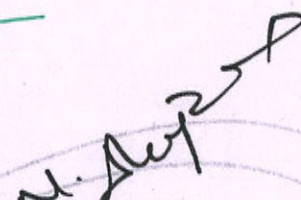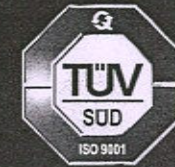
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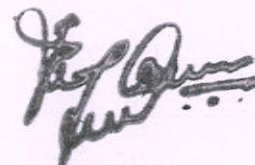
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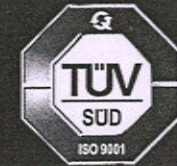COLLEGE FOR WOMEN
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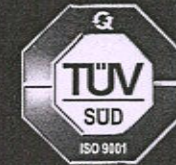COLLEGE FOR WOMEN
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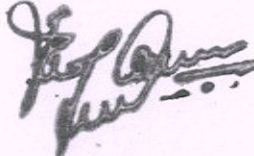*Jointly organaizes*

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