

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



IQAC

Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women

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

Criteria 2

Teaching-Learning and Evaluation

350

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

2021-2022

ELECTRONICS AND COMMUNICATION ENGINEERING

PARTICIPATIVE LEARNING

Activity	Number of Students attended	Page No.
Value Added Course (VAC)	64	3
Symposium, Conference and Workshop	23	50
TOTAL STUDENTS ATTENDED	87	-

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Criteria 2

Teaching-Learning and Evaluation

350

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

2021-2022

ELECTRONICS AND COMMUNICATION ENGINEERING PARTICIPATIVE LEARNING VALUE ADDED COURSE



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2021-2022/ODD SEMESTER

DEPARTMENT CIRCULAR

Date: 30.07.2021

Value Added Course offered by the Department of ECE will be conducted for Second, Third and Final year students on "Fundamentals of MATLAB and its Uses" in association with Marcello tech from 09.08.2021 to 13.08.2021. Certificates will be issued to the eligible participants at the end of the course.

S.No	Name of the Course	Resource Person
1	Fundamentals of MATLAB and its Uses	Er.C.MURUGAN, Senior Project Engineer, Marcello Tech, Ground Floor, Gem Plaza, No-3, SRC College Near, Sankaran Pillai Road, Tiruchirappalli, Tamil Nadu 620002 Mail.Id: info@marcellotech.com

Cc:

Principal's Office

IQAC Coordinator

Class In charges- II, III &IV Year

II .III & IV Year ECE Students

Notice Board

HOD / ECE SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI,

PUDUKKOTTAI - 622 303

Dr. S.THILAGAVATHI M.E., Ph.D., PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkoitai Dt.



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

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR 2021-20222/ODD SEMESTER

Value Added Course on "Fundamentals of Matlab and its Uses"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Matlab , Overview and Installation setup – Variables, Numbers, Operators, Expressions	3	9.8.2021
2	Input and output Vectors, Arrays - Matrices	3	9.8.2021
3	Built-in Functions User defined Functions	3	10.8.202
4	Files and File Management – Import/Export Basic 2D, 3D plots, Graphic handling.	3	10.8.202
5	Conditional Statements, Loops, MATLAB Programs – Programming and Debugging.	3	11.8.202
6	Managing workspace and file commands, Predefined variables and math constants.	3	11.8.202
7	Mathematical Computing with MATLAB Algebraic equations, Basic Symbolic Calculus and Differential equations, Numerical Techniques and Transforms	3	12.8.202
8	Numbers and Strings	3	12.8.202
9	Data Import and Project	3	13.8.202
10	Applications of MATLAB Programming.	3	13.8.202
	Total Hours	30	

VAC Coordinator

HOD / ECE

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI,

PUDUKKOTTAI - 622 303

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN

Kaikkurchi - 622 303, Pudukkottai Dt.



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DEPARTMENT OF ELECTRONICS AN COMMUNICATIONENGINEERING ACADEMIC YEAR ODD SEMESTER (2021-2022)

STUDENT PARTICIPATION LIST FOR VALUE ADDED PROGRAM

Fundamentals of MATLAB and its Uses

S.NO	REG.NO	NAME	YEAR & BRANCH
1	912620106001	ABIRAMI S	II & ECE
2	912620106002	ANUSHYA M	II & ECE
3	912620106003	ARTHI S	II & ECE
4	912620106004	JEYASRI K	II & ECE
5	912620106006	SENPAGAHARINI V	II & ECE
6	912620106007	SONIYA P	II & ECE
7	912620106301	ABITHA S	II & ECE
8	912620106302	DESIKA G	II & ECE
9	912620106303	SABAREESWARI S	II & ECE
10	912620106304	SUBBULAKSHMI P	II & ECE
11	912619106001	AASHIMA M	III & ECE
12	912619106002	ANANTHI P	III & ECE
13	912619106004	JAFFARNISHA R	III & ECE
14	912619106005	MAHESWARI K	III & ECE
15	912619106006	MANISHA S	III & ECE
16	912619106007	MEGAVADHANA A	III & ECE
17	912619106008	PRIYANGA R	III & ECE
18	912619106009	RAGAVI V	III & ECE
19	912619106010	RAJAPRABA M	III & ECE
20	912619106011	SASIKA K	III & ECE
21	912618106001	ANUSHAA S	IV & ECE
22	912618106002	ARIVARASI A	IV & ECE
23	912618106003	ASMATH HAZEENA N	IV & ECE
24	912618106004	ATCHAYA R	IV & ECE
25	912618106005	JAYAPRIYA T	IV & ECE
26	912618106006	JAYASRI M	IV & ECE
27	912618106007	NAGALAKSHMI P	

PRINCIPAL SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukko Col Dt.

S.NO	REG.NO	NAME	YEAR & BRANCH	
28	912618106008	NAVITHRA D	IV & ECE	
29	912618106009	ROHINI K	IV & ECE	
30	912618106010	SOUNTHARYA P	IV & ECE	
31	912618106012	THAIYAL NAYAGI K	IV & ECE	
32	912618106701	JANANI.R	IV & ECE	

VAC coordinator

HOD / ECE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

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

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt.



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KAIKKURICHI, PUDUKKOTTAI-622 303

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR ODD SEMESTER (2021-2022)

ATTENDANCE SHEET FOR VALUE ADDED PROGRAM -FUNDAMENTALS OF MATLAB AND ITS USES

S.No	REG. NO	NAME	YEAR/	9.8.	2021	10.8.	2021	11.8	.2021	12.08	.2021	13.08.	.2021	NO. OF SESSIONS	SIGN OF
- 53	912618106007	NAGALARSHAILE	BRANCH	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	ATTENDED	STUDENT
1	912620106001	ABIRAMI S	II/ECE	1	1	1	1	1	1	1	1	1	1	10	s. duf
2	912620106002	ANUSHYA M	II/ECE	1	1	,	1	1	1	1	1	1	1	lo	m. Anus hye.
3	912620106003	ARTHI S	II/ECE	a	/	,	1	1	1	,	1	1	1	9	S. Arthi
4	912620106004	JEYASRI K	II/ECE	,	1	1	1	1	1	A	1	1	1	to	K. Jorks
5	912620106006	SENPAGAHARINI V	II/ECE	a	1	,	1	1	1	1	,	1	1	9	J. Muli
6	912620106007	SONIYA P	II/ECE	1	1	1	1	/	,	a	1	1	,	9	P. Souja
7	912620106301	ABITHA S	II/ECE	1	1	1	1	1	1	1	1	1	1	10	ALC-C
8	912620106302	DESIKA G	II/ECE —	1	1	a	1	1	,	1	1	1	1	9	G. Dia
9	912620106303	SABAREESWARI S	II/ECE	1	1	1	1	1	1	1	1	1	1	10	S. Sahij
10	912620106304	SUBBULAKSHMI P	II/ ECE	a	a	1	,	1	1	1	1	1	1	8	CD
11	912619106001	AASHIMA M	III/ECE	1	1	,	1	1.	1	1	1	16	1	2 10	Aass.
12	912619106002	ANANTHI P	III/ECE	1	1	1	1	1	1	1	1	X	~	10	R. Airy
13	912619106004	JAFFARNISHA R	III/ECE	1	1	1	1.	1	10	.S.TH	LAGA	VATHI I	M.F. Ph	.D.;	R. 87
14	912619106005	MAHESWARI K	III/ECE	1	,	1	1	1	1	SRIBI	LEGE	FOP/IC	W.	8	mah-
					/	/				Kaikku	101 346	000, 17000	L 1		May.

										CHID	A Company				In the same
15	912619106006	MANISHA S	III/ECE	1	1	7	(1	1	1	1	1	1	10	8.10
16	912619106007	MEGAVADHANA A	III/ECE	1	1	1	,	1	1	/	1	1	1	lo	ADDA
17	912619106008	PRIYANGA R	III/ECE	1	,	1	,	1	,	1	1	1	1	10	ROV
18	912619106009	RAGAVI V	III/ECE	1	1	1	1	1	1	1	1	,	1	10	R.
19	912619106010	RAJAPRABA M	III/ECE	1	1	1	,	1	1	1	1	1	1	10	HAP
20	912619106011	SASIKA K	III/ECE	1	1	1	1	1	1	1	,	1	1	10	* 30gr.
21	912618106001	ANUSHAA S	IV/ECE	1	1	1	1	1	1	1	1	/	1	10	South
22	912618106002	ARIVARASI A	IV/ECE	1	1	1	1	1	1	1	1	1	1	10	driverari.t
23	912618106003	ASMATH HAZEENA N	IV/ECE	1	1	1	1	1	1	1	1	1	,	10	Bonethout
24	912618106004	ATCHAYA R	IV/ECE	1	,	1	1	1	1	1	1	1	1	10	ATCHOYA.R
25	912618106005	JAYAPRIYA T	IV/ECE	1	,	,	1	1	1	1	1	/	1	10	Jayaffiya
26	912618106006	JAYASRI M	IV/ECE	1	,	1	1	1	1	1	1	1	1	10	Jayaski Jayaski
27	912618106007	NAGALAKSHMI P	IV/ECE	,	1	1	1	1	1	1	1	1	1	10	Necl
28	912618106008	NAVITHRA D	IV/ECE	a	a	1	1	1	,	1	1	1508	,	8	Nem
29	912618106009	ROHINI K	IV/ECE	1	1	1	1	1	1	1	,	1	,	to	Raderi
30	912618106010	SOUNTHARYA P	IV/ECE	,	1	,	1	1	1	1	1	1	1	10	Bushi
31	912618106012	THAIYAL NAYAGI K	IV/ECE	1	1	1	1	1	1	1	1		. /	10	they next
32	912618106701	JANANI.R	IV/ECE	1	_	a	1	1	4	1	1	/	1	9	Janani.R
			AND THE RESERVE OF THE PARTY OF	ALTER CHARLES			1		/						

VACONOMINATOR

Dr. S.THILAGAVATHI M.E.,PKD.,
PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai DL SRI BHARATHI ENGINEERING

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

Report on Value Added Course

Title:

Fundamentals of MATLAB and its Uses

Resource Person:

Er.C.MURUGAN,

Senior Project Engineer,

Marcello Tech, Trichy- 620 002.

Date of conduct from:

9.8.2021

To: 13.8.2021

Duration:

30 Hours

Organized Department:

Electronics and Communication Engineering

Participant Year: 2/3/4

Semester: ODD

No. of Students Registered:

32

Venue:

Seminar Hall, ,Ground Floor, SBECW

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

- Learn features of MATLAB as a programming tool. They are fully familiar to all the features of MATLAB software and easily handle the software.
- Develop programming skills and technique to solve mathematical problems.
- Learn graphic features of MATLAB and they are able to use this feature effectively in the various applications.
- Use MATLAB as a simulation tool.
- Work as a 'MATLAB programmer' in the industry.
- Will helps students to get the jobs in future.

No. of students successfully completed the VAC course is <u>32 Students</u> based on the following Assessment process.

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 / ECE

HOD / ECE

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI,

PUDUKKOTTAI - 622 303.

Principal

PRINCIPAL M.E., P.

SRI BHARATHI ENGINEERING

Kaikkurchi - 622 303, Pudukko...a. Dt.



Name of the Student:

AU Register Number:

b) 0

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Year/Sem:

Value Added Course on "Fund	amental of MATLAB and its Uses"
MCQ QUESTIO	NS (20X1 = 20 Marks)
 What does MATLAB stand for? a) Math Analysis Language Tool b) Matrix Analysis Language Tool c) Mathematical Analysis Language d) Matrix Laboratory 	
2. Which Command In Matlab Is Used To Crea) new	eate A New Variable? c) create
b) var	d) let
3. What Is The Default Extension Of A Matlai	orth Control of the C
a) .mat	c) .md similaritie mi semalase hateici e i
b) .m	d) .txt
4. Which Of The Following Statements Is Us	ed To Create A For Loop In Matlab?
a) while	c) for
b) do-while	d) repeat-until
5. Which Of The Following Commands Is Use a) zeros b) ones	ed To Create A Matrix With All Elements Set To 0? c) eye d) rand
6. Which command in MATLAB is used to cr	reate a plot?
a) plot	c) drawplot
b) createplot	d) makeplot
7. Which of the following commands is used t MATLAB?	to calculate the dot product of two vectors in
a) dot	c) inner
b) cross	d) product
8. The functioning of all() and any() is same. a) True	b) False Dr. S.THILAGAVATHI M.E., Ph.D., PRINCIPAL
9. What will be the output of the following co	
all([1 0])	Kaikkurchi - 622 303, Pudukkottai Dt.

c) Error

d) None of these



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10. Choose the correct hierarchy of operatio	ns.
a) ,&,+,-	c):,+,-,&
b) +,-,&,	d) ,:,&,.^
11. The if-else structure does not allow	
a) Return statement	c) Endif statement
b) End statement	d) Break statement
12.Before starting a new case, we have to er	nd the previous case using
a) Break statement	c) Return statement
b) Continue statement	d) No statement
13. The continue statement can be used in a	switch-case structure.
a) True	b) False
14.We cannot use a statement if the if-	else structure is not part of a loop.
a) continue	c) clc
b) if-else	d) plot()
15.Digital systems in Simulink.	(b. 16m) (b. 16m)
a) Can be implemented	c) Only ADC's
b) Cannot be implemented	d) Only DAC's
16. The no. of logical operations present in t	he logical operator block is
a) 6	c) 5
b) 7	d) 3
17. The limits of the graph obtained from th	
a) Configuration properties	c) Layout option
b) Style option	d) Stepping option
18.The clipboard function cannot work with	
a) Python	c) JAVA
b) C	d) Not present in MATLAB
19. What is the output of the following code	9?
clipboard('copy',poe)	Management a service to the Artist Ar
a) Logical Error	c) Copies poe
b) Copies 'poe'	d) Syntactical Error
20. What is the output of the following code	?
system('date')	
a) Shows the date in your systemb) Shows the actual date	c) Shows the date when MATLAB was installed d) Error

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



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING <u>Academic Year 2021-2022/ODD Semester</u>

Value Added Course on Fundamentals of MATLAB and its uses

MCQ ANSWER KEY

1	D	6	A	11	D	16	В
2	В	7	A	12	D	17	A
3	В	8	В	13	В	18	С
4	С	9	В	14	A	19	D
5	A	10	В	. 15	A	20	A

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

PRINCIPAL

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9. What will be the output of the following code?

b) 0

all([1 0])

a) 1

Name of the Student: Arth. S Year/Sem: I / I AU Register Number: 9126 20106003 Value Added Course on "Fundamental of MATLAB and its Uses MCQ OUESTIONS (20X1 = 20 Marks)1 What does MATLAB stand for? a) Math Analysis Language Tool b) Matrix Analysis Language Tool c) Mathematical Analysis Language Matrix Laboratory 2. Which Command In Matlab Is Used To Create A New Variable? a) new c) create (B) var d) let 3. What Is The Default Extension Of A Matlab Script File? a) .mat c) .md (D).m d) .txt 4. Which Of The Following Statements Is Used To Create A For Loop In Matlab? a) while b) do-while d) repeat-until 5. Which Of The Following Commands Is Used To Create A Matrix With All Elements Set To 0? (a) zeros c) eye b) ones d) rand 6. Which command in MATLAB is used to create a plot? a) plot c) drawplot Greateplot d) makeplot 7. Which of the following commands is used to calculate the dot product of two vectors in MATLAB? (a) dot c) inner b) cross d) product 8. The functioning of all() and any() is same. ATHIM.E., Ph.D., a) True PRINCIPAL False SRI BHARATHI ENGINEERING

@/Error

COLLEGE FOR WOMEN

Kaikkurchi - 622 303, Pudukko ... Dt.

d) None of these



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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

10. Choose the correct hierarchy of operation	IS.
a) ,&,+,-	c):,+,-,& d) ,:,&,.^
6 7,-,&,	d) ,:,&,.^
11 The if also atmestive does not allow	
11. The if-else structure does not allow	NP-1'S -total and
a) Return statement	c) Endif statement
b) End statement	@/Break statement
12.Before starting a new case, we have to end	d the previous case using
Break statement	c) Return statement
b) Continue statement	d) No statement
b) Continue statement	d) No statement
13. The continue statement can be used in a st	witch-case structure.
True	b) False
	2 Winch Command In Mediatr Is I had The
14.We cannot use a statement if the if-e	else structure is not part of a loop.
(a) continue	c) clc
b) if-else	d) plot()
	in a second and the fact of th
15.Digital systems in Simulink.	
an be implemented	c) Only ADC's
b) Cannot be implemented	d) Only DAC's
bar (b)	-, o,
✓ 16. The no. of logical operations present in th	e logical operator block is
a) 6	c) 5
b) 7	1
limp-uses th	Sillia-stati
77. The limits of the graph obtained from the	e scope can be changed from the
(a) Configuration properties	c) Layout option
b) Style option	d) Stepping option
b) Style option	a) stopping option
18.The clipboard function cannot work with	out
a) Python	(C) JAVA
b) C	d) Not present in MATLAB
Tolg a same	d) Not present in WATEAD
19. What is the output of the following code	n long (A
	tological deployers (160)
clipboard('copy',poe)	-) Ci
a) Logical Error	c) Copies poe
b) Copies 'poe'	Syntactical Error
20 What is the output of the following code?	
20. What is the output of the following code?	Hall
system('date')	a) Shayya tha data whan MATI AD was
Shows the date in your system	c) Shows the date when MATLAB was
installed	Dr. S.THILAGAVATHI M.E., Ph.D.,
b) Shows the actual date	d) Error PRINCIPAL
	SRI BHARATHI ENGINEERING
	COLLEGE FOR WOMEN
	Kaikkurchi - 622 303, Pudukkotta: Dt.

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9. What will be the output of the following code?

b) 0

all([1 0])

Name of the Student: Maheswa	vir. k Year/Sem: III/ W.
AU Register Number: 9126191	106005
Value Added Course on "Funda	amental of MATLAB and its Uses"
MCQ QUESTION	NS (20X1 = 20 Marks)
1. What does MATLAB stand for? a) Math Analysis Language Tool b) Matrix Analysis Language Tool c) Mathematical Analysis Language d) Matrix Laboratory	-12 fictions starting a new case, we have in end a). Prest statement b) Continues statement 15. The continue statement can be used in a sy
2. Which Command In Matlab Is Used To Cre	eate A New Variable?
a) new	c) create
(b) var	d) let
3. What Is The Default Extension Of A Matlab	b Script File?
a) .mat	c) .md
b) .m	(d) .txt
4. Which Of The Following Statements Is Use	
(a) while b) do-while	c) for d) repeat-until
5. Which Of The Following Commands Is Use To 0?	ed To Create A Matrix With All Elements Set
(a) zeros b) ones	c) eye d) rand
Ac was a second	
6. Which command in MATLAB is used to crea) plot	
(b) createplot	c) drawplot d) makeplot
7. Which of the following commands is used to MATLAB?	calculate the dot product of two vectors in
(a) dot	c) inner
b) cross	d) product
8. The functioning of all() and any() is same. a) True	Tr. S.THILAGAVATHI M.E., Ph. PRINCIPAL SRI BHARATHI ENGINEERING
Q What will be the control Cil Cil	COLLEGE

c) Error

COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai D!

d) None of these



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai 25)
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

1	Name of the Students - 450 includes in
10. Choose the correct hierarchy of ope	rations.
a) ,&,+,-	c) :,+,-,& d) ,:,&,.^
(b) +,-,&,	d) ,:,&,.^
11. The if-else structure does not allow	
a) Return statement	c) Endif statement
b) End statement	Break statement
67 c	6.) (1989)
12.Before starting a new case, we have	
a) Break statement	c) Return statement
b) Continue statement	(d) No statement
13. The continue statement can be used	in a switch-case structure.
a) True	(b) False
14. We cannot use a statement if the	na if also structure is not part of a loop
a) continue	c) clc
(b) if-else	d) plot()
(b) II-cisc	d) piot()
15.Digital systems in Simulink	in the second continue of the second of a second of the se
a) Can be implemented	c) Only ADC's
b) Cannot be implemented	d) Only DAC's
16. The no. of logical operations present	t in the logical operator block is
a) 6	c) 5
(B) 7	d) 3
lusay-impus	MILW-08 18
	m the scope can be changed from the
(a) Configuration properties	c) Layout option
b) Style option	d) Stepping option
18. The clipboard function cannot work	without
a) Python	c) JAVA
b) C	(d) Not present in MATLAB
Stole	
19. What is the output of the following	code?
clipboard('copy',poe)	
a) Logical Error	c) Copies poe
b) Copies 'poe'	d) Syntactical Error
20 What is the output of the following	code?
20. What is the output of the following	coue:
system('date')	c) Shows the date when MATLAB was
a) Shows the date in your system installed	c) shows the date when what Landwas
b) Shows the actual date	(d) Error
o) shows the actual date	Dr. S.THILAGAVATHI M.E., Ph.D.
	DDUIGHT.

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Name of the Student: P. Sown Thouya

AU Register Number: 912618106010

9. What will be the output of the following code?

(b) 0

all([1 0])

a) 1

Year/Sem: [V/VI]

SRI BHARATHI ENGINEERING

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Value Added Course on "Fundamental of MATLAB and its Uses"

s Joseph Committee Committ	or that the and its oses
MCQ QUESTION	VS(20X1 = 20 Marks)
1. What does MATLAB stand for?	12 Before storting it riew case, we have to end
a) Math Analysis Language Tool	
b) Matrix Analysis Language Tool	
c) Mathematical Analysis Language	
Matrix Laboratory	
2. Which Command In Matlab Is Used To Cre	
a) new	c) create
(b) var	d) let
3. What Is The Default Extension Of A Matlal	Script File?
a) .mat	(c).md
b) .m	d) .txt
4. Which Of The Following Statements Is Use	ed To Create A For Loop In Matlab?
a) while	(c) for
b) do-while	d) repeat-until
5. Which Of The Following Commands Is Use To 0?	ed To Create A Matrix With All Elements Set
(a) zeros	c) eye
b) ones	d) rand
6. Which command in MATLAB is used to cre	eate a plot?
(a) plot	c) drawplot
b) createplot	d) makeplot
7. Which of the following commands is used to MATLAB?	calculate the dot product of two vectors in
(a) dot	c) inner
b) cross	d) product
A STATE OF THE PARTY AND THE P	a) product
8. The functioning of all() and any() is same.	Dr. S.THILACAVATHI M.E., Ph.D.,
(a) True	b) False PRINCIPAL

c) Error



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	The second secon	
10. Choose the correct hierarchy of operation	Service of the Student S. Carlo Students.	
a) ,&,+,-	c)·+-&	
(b) +,-,&,	c):,+,-,& d) .:.&.,^	
(0) 1, ,,	۵/ ۱٫۰٫۰۰۰	
11. The if-else structure does not allow		
(a) Return statement	c) Endif statement	
b) End statement	d) Break statement	
b) End statement	d) Break statement	
12. Before starting a new case, we have to end	d the previous case using	
a) Break statement	c) Return statement	
b) Continue statement	(d) No statement	
b) Continue statement	Sa) No statement	
13. The continue statement can be used in a sv	witch-case structure	
	(b) False	
a) The	(b) Tuise	
14. We cannot use a statement if the if-e	else structure is not part of a loop.	
a) continue	c) clc	
b) if-else	d) plot()	
15.Digital systems in Simulink.		
a) Can be implemented	c) Only ADC's	
(b) Cannot be implemented	d) Only DAC's	
1 120. (b)		
16. The no. of logical operations present in the	ne logical operator block is	
a) 6	c) 5	
(b) 7	d) 3	
d) espeni-until	201W-20-10	
17. The limits of the graph obtained from the	e scope can be changed from the	
a) Configuration properties	c) Layout option	
(b) Style option	d) Stepping option	
9/3 (3/)		
18. The clipboard function cannot work without	out	
(a) Python	c) JAVA	
b) C	d) Not present in MATLAB	
Sloig & glois		
19. What is the output of the following code?	?	
clipboard('copy',poe)		
a) Logical Error	c) Copies poe	
b) Copies 'poe'	(d) Syntactical Error	
20. What is the output of the following code?	?	2
system('date')	$\sim 1 \sim 1$	1
(a) Shows the date in your system	c) Shows the date when MATLAB was	1
installed	COMPANY IN THE DOSE HAR TO REPROPER TO THE	1
b) Shows the actual date	d) Error Dr. S.THILAGAVATHIN	AF PI
DIVERTIFICAÇÃO DE 192	Dr. S. I EILE GAVALIII	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATIONENGINEERING **ACADEMIC YEAR ODD SEMESTER (2021-2022)**

MARK SHEET FOR VALUE ADDED COURSE-FUNDAMENTALS OF MATLAB AND ITS USES

27	DE CACTED	NAOAL AKSERALP	YEAR	and the second second	ndance A)	TO SECURE A CONTRACT OF STREET	ICQ TEST (B)	OVERALL MARK(100)
S.NO	REGISTER NUMBER	NAME	& BRANCH	No.of Sessions Attented	Marks (100)	No.of Correct Answer	Marks (100)	(50% of A + 50% of B)
1	912620106001	ABIRAMI S	II /ECE	10	100	18	90	95
2	912620106002	ANUSHYA M	II /ECE	10	100	13	65	83
3	912620106003	ARTHI S	II /ECE	9	90	15	75	83
4	912620106004	JEYASRI K	II /ECE	10	100	16	80	90
5	912620106006	SENPAGAHARINI V	II /ECE	9	90	15	75	83
6	912620106007	SONIYA P	II /ECE	9	90	15	75	83
7	912620106301	ABITHA S	II/ECE	10	100	19	95	98
8	912620106302	DESIKA G	II/ECE	9	90	14	70	80
9	912620106303	SABAREESWARI S	II/ECE	10	100	18	90	90
10	912620106304	SUBBULAKSHMI P	II/ECE	8	80	13	65	73
11	912619106001	AASHIMA M	III /ECE	10	100	17	85	.93
12	912619106002	ANANTHI P	III /ECE	10	100	13	65	83
13	912619106004	JAFFARNISHA R	III /ECE	10	100	14 Dr 5	THU ⁷ 8GAV	STHIME Ph.D.
14	912619106005	MAHESWARI K	III /ECE	8	80	13	65RINC	A

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15	912619106006	MANISHA S	III /ECE	10	100	16	80	90
16	912619106007	MEGAVADHANA A	III /ECE	10	100	13	65	83
17	912619106008	PRIYANGA R	III /ECE	10	100	14	70	85
18	912619106009	RAGAVI V	III /ECE	10	100	19	95	98
19	912619106010	RAJAPRABA M	III /ECE	10	100	18	90	95
20	912619106011	SASIKA K	III /ECE	10	100	16	80	90
21	912618106001	ANUSHAA S	IV /ECE	10	100	14	60	80
22	912618106002	ARIVARASI A	IV /ECE	10	100	18	90	95
23	912618106003	ASMATH HAZEENA N	IV /ECE	10	100	14	70	85
24	912618106004	ATCHAYA R	IV/ECE	10	100	12	60	80
25	912618106005	JAYAPRIYA T	IV /ECE	10	100	15	75	88
26	912618106006	JAYASRI M	IV /ECE	10	100	18	90	95
27	912618106007	NAGALAKSHMI P	IV /ECE	10	100	16	80	90
28	912618106008	NAVITHRA D	IV /ECE	8	80	19	95	88
29	912618106009	ROHINI K	IV /ECE	10	100	12	60	80
30	912618106010	SOUNTHARYA P	IV /ECE	10	100	14	60	80
31	912618106012	THAIYAL NAYAGI K	IV /ECE	10	100	13	65	83
32	912618106701	JANANI.R	IV /ECE	9	90	15	75	83

VAC Coordinator

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI,



Kaikkurichi, Pudukottai – 622 303.





This is certify that Mr./Ms./Mrs. ANUSHYA M, II Yr / ECE

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

has successfully completed Five Days Value Added Course on "Fundamentals of MATLAB and its Uses" organized by the Department of Electronics and Communication Engineering, Sri Bharathi Engineering College for Women, Pudukottai in association with Marcellotech from 09.08.2021 to 13.08.2021

S. Avudort

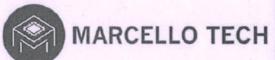
MANAGER



HOD - ECE



Kaikkurichi, Pudukottai - 622 303.





This is certify that Mr./Ms./Mrs. RAJAPRABA M, III Yr / ECE

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

has successfully completed Five Days Value Added Course on "Fundamentals of MATLAB and its Uses" organized by the Department of Electronics and Communication Engineering, Sri Bharathi Engineering College for Women, Pudukottai in association with Marcellotech from 09.08.2021 to 13.08.2021

S. Avudort

MANAGER



Kaikkurchi - 622 303, Pudukkottai Dt.



Kaikkurichi, Pudukottai - 622 303.





This is certify that Mr./Ms./Mrs. ANUSHAA S, IV Yr / ECE

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

has successfully completed Five Days Value Added Course on "Fundamentals of MATLAB and its Uses" organized by the Department of Electronics and Communication Engineering, Sri Bharathi Engineering College for Women, Pudukottai in association with Marcellotech from 09.08.2021 to 13.08.2021

S. Avudort

MANAGER





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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR 2021-2022/EVEN SEMESTER

DEPARTMENT CIRCULAR

Date: 21.02.2022

Certificate Course offered by the Department of ECE will be conducted for all Second, Third and Final year students on "Different Methodologies for IC Design" in our college campus from 07.03.2022 to11.03.2022. Certificates will be issued to the eligible participants at the end of the course.

S.No	Name of the Course	Resource Person
	Different	1.Mrs.V.NITHYAPOORANI, Assistant Professor/ECE, Department of ECE.
1	Methodologies for IC Design	2.Mr.C.PALANIYAPPAN, Assistant Professor/ECE, Department of ECE.

Cc:

Principal's Office

IQAC Coordinator

• Class In charges- II ,III &IV Year

• II ,III & IV Year ECE Students

Notice Board

HOD / ECE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

Dr. S.THILAGAVATHI M.E.C.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR 2021-2022/EVEN SEMESTER

Certificate Course on "Different Methodologies for IC Design"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE	RESOURCE PERSON
1	Integration Scales and Applications	3	7.03.2022	Mrs.V.Nithyapoorani
2	Device Modelling for Digital ICs MOSFETs Layout and fabrication related topics.	3	7.03.2022	Mr.C.Palaniyappan
3	The Inverter CMOS: DC and transient characteristics.	3	8.03.2022	Mr.C.Palaniyappan
4	Basic Logic Families - CMOS Logic Circuits - Combinational logic gates- Dynamic circuits and clocking	3	8.03.2022	Mrs.V.Nithyapoorani
5	Digital Logic Units	3	9.03.2022	Mrs.V.Nithyapoorani
6	Sequential design and timing	3	9.03.2022	Mr.C.Palaniyappan
7	Arithmetic logic circuits	3	10.03.2022	Mrs.V.Nithyapoorani
8	Memories Cells and Arrays: SRAMs, DRAMs	3	10.03.2022	Mr.C.Palaniyappan
9	Applications to Practical Design Problems	3	11.03.2022	Mr.C.Palaniyappan
10	Examples from current literature including microprocessors, control systems, and signal processing.	3	11.03.2022	Mrs.V.Nithyapoorani
	Total Hours		30	

Course Coordinator

Dr. S.THILAGAVATHI M.E., Ph.D!, PRINCIPAL

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI,

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DEPARTMENT OF ELECTRONICS AN COMMUNICATIONENGINEERING ACADEMIC YEAR EVEN SEMESTER (2021-2022)

STUDENT PARTICIPATION LIST FOR CERTIFICATE COURSE PROGRAM

Different Methodologies for IC Design

S.NO	REG.NO	NAME	YEAR & BRANCH
1	912620106001	ABIRAMI S	II & ECE
2	912620106002	ANUSHYA M	II & ECE
3	912620106003	ARTHI S	II & ECE
4	912620106004	JEYASRI K	II & ECE
5	912620106006	SENPAGAHARINI V	II & ECE
6	912620106007	SONIYA P	II & ECE
7	912620106301	ABITHA S	II & ECE
8	912620106302	DESIKA G	II & ECE
9	912620106303	SABAREESWARI S	II & ECE
10	912620106304	SUBBULAKSHMI P	II & ECE
11	912619106001	AASHIMA M	III & ECE
12	912619106002	ANANTHI P	III & ECE
13	912619106004	JAFFARNISHA R	III & ECE
14	912619106005	MAHESWARI K	III & ECE
15	912619106006	MANISHA S	III & ECE
16	912619106007	MEGAVADHANA A	III & ECE
17	912619106008	PRIYANGA R	III & ECE
18	912619106009	RAGAVI V	III & ECE
19	912619106010	RAJAPRABA M	III & ECE
20	912619106011	SASIKA K	III & ECE
21	912618106001	ANUSHAA S	IV& ECE
22	912618106002	ARIVARASI A	IV& ECE
23	912618106003	ASMATH HAZEENA N	IV& ECE
24	912618106004	ATCHAYA R	IV& ECE
25	912618106005	JAYAPRIYA T	IV& ECE
26	912618106006	JAYASRI M	IV& ECE
27	912618106007	NAGALAKSHMI P	IV& ECE

SAIBHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkotia Dt.

s.NO	REG.NO	NAME	YEAR & BRANCH
28	912618106008	NAVITHRA D	IV& ECE
29	912618106009	ROHINI K	IV& ECE
30	912618106010	SOUNTHARYA P	IV& ECE
31	912618106012	THAIYAL NAYAGI K	IV& ECE
32	912618106701	JANANI.R	IV& ECE

V. U. Course Coordinator

HOD / ECE

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI, PUDUKKOTTAI - 622 303

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

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt.



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KAIKKURICHI, PUDUKKOTTAI-622 303
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR EVEN SEMESTER (2021-2022)

ATTENDANCE SHEET FOR CERTIFICATE COURSE PROGRAM-DIFFERENT METHODOLOGIES FOR IC DESIGN

DEC NO	NAME	YEAR/	07.3.	.2021	8.3.2	2021	9.3.2	2021	10.03	.2021	11.03.	2021	NO. OF SESSIONS	SIGN OF
REG. NO	NAME	BRANCH	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	ATTENDED	STUDENT
912620106001	ABIRAMI S	II/ECE	1	1	1	1	1	1	1	1	1	1	10	s.ghij
912620106002	ANUSHYA M	II/ECE	1	1	1	1	1	1	1	1	1	1	10	m. Anushya.
912620106003	ARTHI S	II/ECE	1	1	1	1	1	1	1	1	1	1	10	S. Arthi
912620106004	JEYASRI K	II/ECE	,	1	a	a	1	1	1	1	1	1	8	K. Juff
912620106006	SENPAGAHARINI V	II/ECE	1	1	1	1	1	1	1	1	1	1	10	w. shifting
912620106007	SONIYA P	II/ECE	1	1	1	1	1	1	1	1	1	1	10	P. Somjer
912620106301	ABITHA S	II/ECE	1	1	1	1	1	1	1	1	1	1	10	A64.3
912620106302	DESIKA G	II/ECE	1	1	1	1	1	1	a	1	1	1	9	Brea
912620106303	SABAREESWARI S	II/ECE	1	1	1	1	1	1	1	1	1	1	10	Scalni
912620106304	SUBBULAKSHMI P	II/ECE	a	a	1	1	1	1	1	1	1	1	8	Sul
912619106001	AASHIMA M	III/ECE	1	1	1	1	1	1	1	1	1	1	10	Aoss.
912619106002	ANANTHI P	III/ECE	1	1	1	1	1	1	a	1	. ,	,	9	& Aigh.
912619106004	JAFFARNISHA R	III/ECE	1	1	1	1	1	1	a	a	,	1	8	R. 8+
912619106005	MAHESWARI K	III/ECE	1	1	1	1	,	1	,	1	1	1	10	Mahm
912619106006	MANISHA S	III/ECE	1	1	1	1	1							8.1Eij
	912620106002 912620106003 912620106004 912620106006 912620106301 912620106302 912620106303 912620106304 912619106001 912619106002 912619106005	912620106001 ABIRAMI S 912620106002 ANUSHYA M 912620106003 ARTHI S 912620106004 JEYASRI K 912620106006 SENPAGAHARINI V 912620106007 SONIYA P 912620106301 ABITHA S 912620106302 DESIKA G 912620106303 SABAREESWARI S 912620106304 SUBBULAKSHMI P 912619106001 AASHIMA M 912619106002 ANANTHI P 912619106004 JAFFARNISHA R 912619106005 MAHESWARI K	REG. NO NAME BRANCH 912620106001 ABIRAMI S II/ECE 912620106002 ANUSHYA M II/ECE 912620106003 ARTHI S II/ECE 912620106004 JEYASRI K II/ECE 912620106006 SENPAGAHARINI V II/ECE 912620106007 SONIYA P II/ECE 912620106301 ABITHA S II/ECE 912620106302 DESIKA G II/ECE 912620106303 SABAREESWARI S II/ECE 912620106304 SUBBULAKSHMI P II/ECE 912619106001 AASHIMA M III/ECE 912619106002 ANANTHI P III/ECE 912619106004 JAFFARNISHA R III/ECE 912619106005 MAHESWARI K III/ECE	REG. NO NAME YEAR/BRANCH 912620106001 ABIRAMI S II/ECE 912620106002 ANUSHYA M II/ECE 912620106003 ARTHI S II/ECE 912620106004 JEYASRI K II/ECE 912620106006 SENPAGAHARINI V II/ECE 912620106007 SONIYA P II/ECE 912620106301 ABITHA S II/ECE 912620106302 DESIKA G II/ECE 912620106303 SABAREESWARI S II/ECE 912620106304 SUBBULAKSHMI P II/ECE 912619106001 AASHIMA M III/ECE 912619106002 ANANTHI P III/ECE 912619106004 JAFFARNISHA R III/ECE 912619106005 MAHESWARI K III/ECE	REG. NO NAME BRANCH F.N A.N 912620106001 ABIRAMI S II/ECE	REG. NO NAME YEAR/BRANCH F.N A.N F.N 912620106001 ABIRAMI S III/ECE / / / / / / 912620106002 ANUSHYA M III/ECE / / / / / / 912620106003 ARTHI S III/ECE / / / / / / / 912620106004 JEYASRI K III/ECE / / / / / / / 912620106006 SENPAGAHARINI V III/ECE / / / / / / / 912620106007 SONIYA P III/ECE / / / / / / / / / 912620106301 ABITHA S III/ECE / / / / /	REG. NO	NAME STANCH F.N A.N F.N STANCH F.N F.N F.N F.N STANCH F.N F.N	REG. NO	REG. NO NAME YEAR/ BRANCH F.N. A.N F.N A.N F.N A.N F.N A.N F.N A.N F.N A.N F.N A.N ATTENDED 912620106001 ABIRAMI S II/ECE / / / / / / / / / / / / / / / / / / /				

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16	912619106007	MEGAVADHANA A	III/ECE	a	,	1	1	1	13	1	,	,	1	9	Anot
17	912619106008	PRIYANGA R	III/ECE	/	1	1	1	1	9 8	1	1	1	,	to	R.Q
18	912619106009	RAGAVI V	III/ECE	1	1	1	1	,	1	a	a	1	1	.8	Pet
19	912619106010	RAJAPRABA M	III/ECE	1	1	1	1	1	1	-/	1	1	1	10	17.14
20	912619106011	SASIKA K	III/ECE	1	1	1	1	1	1	,	1	1	1	1.0	£:00-
21	912618106001	ANUSHAA S	IV/ECE	1	1	,	1	1	1	1	1	1	1	10	Sousha.
22	912618106002	ARIVARASI A	IV/ECE	1	1	1	1	1	1	1	1	1	1	10	diwarasi. t
23	912618106003	ASMATH HAZEENA N	IV/ECE	1	1	a	a	1	1	1	1	. /	1	8	Buthuta
24	912618106004	ATCHAYA R	IV/ECE	1	1	1	1	1	1	/	1	,	1	10	ATCHOTA P
25	912618106005	JAYAPRIYA T	IV/ECE	1	1	1	1	+	1	a	a	1	1	8	Jayatkija
26	912618106006	JAYASRI M	IV/ECE	1	1	a	a	1	1	1	1	1	/	8	Jayaski
27	912618106007	NAGALAKSHMI P	IV/ECE	1	1	1	1	1	1	1	1	1	1	10	nonl
28	912618106008	NAVITHRA D	IV/ECE	1	1	1	1	,	1	1	1	1	1	10	nem
29	912618106009	ROHINI K	IV/ECE	1	1	1	1	1	1	a	1	1	1	9	Dodre:
30	912618106010	SOUNTHARYA P	IV/ECE	1	1	1	1	1	1	/	1	1	1	10	Bodi.
31	912618106012	THAIYAL NAYAGI K	IV/ECE	1	1	1	1	1	1	1	1	1	1	10	That Nay of
32	912618106701	JANANI.R	IV/ECE	1	1	1	1	1	1	1	1	1	1	10	Janani.P

Course Coordinator

Dr. S.THILAGAVATHI M.E., Ph.D., PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt.

HOD / ECE

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI - 622 303

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

Report on Certificate Course

Title:

Different Methodologies for IC Design

Resource Person:

1.Mrs.V.NITHYAPOORANI,

Assistant Professor/ECE.

2.Mr.C.PALANIYAPPAN,

Assistant Professor/ECE.

Date of conduct from:

7.3.2022

To: 1

11.3.2022

Duration:

30 Hours

Organized Department:

Electronics and Communication Engineering

Participant Year:

2/3/4

Semester:

ODD

No. of Students Registered:

1: 32

Venue:

Seminar Hall, ,Ground Floor, SBECW

Outcome of Certificate Course (CC) : At the end of Course , Students can able to

- · Analyze functionality of digital circuits including combinational, sequential, and memory
- Characterize speed, energy consumption, and robustness of combinational, sequential, and memory circuits.
- Design combinational, sequential, and memory circuits to meet specified functionality, speed, energy, and robustness targets
- Perform simulation of digital circuits, and write reports conforming to technical writing standards.
- Understand EDA tool design flow for digital IC design.
- No. of students successfully completed the certificate course is <u>32 Students</u> based on the following Assessment process.

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 Certificate course conducted
- Total Score = (0.5 *Attendance in CC out of 100 percentage + 0.5 *Test mark in CC out of 100 marks)

Course Coordinator

HOD / ECE

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI,

PUDUKKOTTAI - 622 303.

Principal \

r. S.THILAGAVATHIM.E.

SRI BHARATHI ENGINEERII COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai

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I I WILL OF THE STUDENT	Name	of	the	Stuc	lent	:
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Year/Sem:

PRINCIPAL SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt.

AU Register Number:

Certificate Course on "Different Methodologies For IC Design"

MCQ QUESTIONS (25X1 = 25 Marks)

1. An IC contains	
a) Passive elements	c) Both Passive and active elements
b) Active elements	d) None of the above
2. The most complicated component fabricated	
a) Diode	c) Transistor
b) Resistor	d) Conductor.
3. The bottom layer of an IC serves as?	
a) Connector layer	c) Substrate
b) Insulating layer	d) None of the above
4. All the active and passive elements are grow	n on thelayer of the IC?
a) First substrate layer	
b) The second layer which is a single crystal	extension of the substrate
c) The SiO2 layer	d) The Polysilicon layer
and grant and an artist of	
5. The substrate is typically of size?	
a) 25 mils thick	c) 2 mils thick
b) 16 mils thick	d) 6 mils thick.
(The second leave of IC is a Committee of Ic all	: 10
6. The second layer of IC is of mils th	
a) 2 b) 1	c) 5 d) 0
7. The diffusion of impurities is done on the	laver?
a) Substrate layer	c) SiO2 layer
b) Second layer	d) All of the above
8. IC fabrication depends upon?	
a) Materials	c) design technologies
b) process	d) all the above
	. b) Lower than that of the substrate
9 protects the wafer from contamination of	
a) SiO2 layer	c) Photo resist layer
b) Masks	d) Diffusion Dr. S.THILAGAVATHI M.E., Ph
	DI. S. IFILAGAVAITI W.E.,Ph

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10. Selective etching is done using?	
a) Diffusion process	c) Metallization process
b) Photolithography process	d) Masking process
11. Usually, the substrate of IC is made up of	TO THE THE OWN
a) Germanium	c) Silicon SiO2
b) metal	d) Aluminum.
12. The process of forming an IC on a single si	licon chip is known as
a) Single Process IC	c) Epitaxial IC
b) Monolithic IC	d) all the above
13. The process of forming an IC on a single si	licon chip is known as
a) Independent of the substrate	c) Equal to that of the substrate
b) Dependent on the substrate	d) Zero
14. Silicon dioxide helps the penetration of im	purities.
a) True	c) Partially
b) False	d) All the above
15. Silicon dioxide helps the penetration of imp	purities.
a) Different isolation regions	c) Epitaxial region
b) Same isolation regions	d) Photoresist region
16. To make p-n junctions reverse biased, with substrate must also be held at?	respect to isolation region the p-type
a) Zero	c) Positive potential
b) Unity	d) Negative potential
17. While operating circuit, the isolation will b	e lost if the p-n junction is
a) Reverse biased	c) Short circuited
b) Forward biased	d) Open circuited
18. To prevent the connection between two iso ions between isolation regions should be	
a) Zero	c) Higher than that of the substrate
b) Lower than that of the substrate	d) Equal to that of the substrate.
19. Using base diffusion step are formed	
a) Transistor h) hase regions Resistors	c) Resistors d) All of the above

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20. In base diffusion	on stepimpurities are diffused?
a) p-type	c) Both p & n-type
b) n-type	d) None of the above.
21. The resistivity of	of the base layer is the isolation region?
a) Equal to	c) Higher than
b) Lower than	d) Reciprocal
22. In emitter diffu	sion step are formed?
a) Transistor	c) Resistors
b) emitters	d) Only a & c
23. Aluminum is a	type impurity in a silicon
a) N-type	c) Inert
b) P-type	d) Metallic
24 prev	vents the formation of the p-n junction when aluminium is used for ohmic
	centration of phosphorus
	centration of Silicon
	centration of Polysilicon
d) None of the	
25. The interconne	ections are made during
a) Emitter dif	fusion process
b) Photolitho	graphy process
c) Epitaxial g	rowth
d) Metallizati	on process

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Academic Year 2021-2022/EVEN Semester

Certificate Course on Different Methodologies for IC design

MCQ ANSWER KEY

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

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

Name of the Student: Sowya. P	Year/Sem: 11 / 1V				
AU Register Number: 913620106007	at Difficulty process				
Certificate Course on "Different	t Methodologies For IC Design"				
MCQ QUESTIONS	S (25X1 = 25 Marks)				
1. An IC contains	Inlam (1)				
a) Passive elements	e) Both Passive and active elements				
b) Active elements	d) None of the above				
2. The most complicated component fabricated	d on IC is?				
a) Diode	e) Transistor				
b) Resistor	d) Conductor.				
3. The bottom layer of an IC serves as?	Independent of the substrate Deneadent on the substrate				
a) Connector layer	c) Substrate				
b) Insulating layer	d) None of the above				
4. All the active and passive elements are grov a) First substrate layer	vn on thelayer of the IC?				
b) The second layer which is a single crysta	l extension of the substrate				
c) The SiO2 layer	d) The Polysilicon layer				
5. The substrate is typically of size?					
a) 25 mils thick	c) 2 mils thick				
-b) 16 mils thick	d) 6 mils thick.				
6. The second layer of IC is of mils t	hickness?				
a) 2 b) 1	c) 5 d) 0				

7. The diffusion of impurities is done on the----layer?

a) Substrate layer

c) SiO2 layer

b) Second layer

d) All of the above

8. IC fabrication depends upon---?

a) Materials

c) design technologies

b) process

d'all the above

9. ---- protects the wafer from contamination due to impurities?

siO2 layer

c) Photo resist layer

b) Masks

d) Diffusion

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10. Selective etching is done using?	
a) Diffusion process	c) Metallization process
b) Photolithography process	d) Masking process
mesen of the telephonomers in	17 ISHRIT NOTES A 3 STEELING LL
11. Usually, the substrate of IC is made up of	f
a) Germanium	e) Silicon SiO2
b) metal	d) Aluminum.
12. The process of forming an IC on a single	siliaan ahin is known as
a) Single Process IC	c) Epitaxial IC
b) Monolithic IC	d) all the above
to the second se	a) all the above
13. The process of forming an IC on a single	silicon chip is known as
a) Independent of the substrate	c) Equal to that of the substrate
b) Dependent on the substrate	d) Zero
	79/08/301988PO J (4)
14. Silicon dioxide helps the penetration of i	impurities.
a) True	c) Partially
b) False	d) All the above
15. Silicon dioxide helps the penetration of in	mpurities
a) Different isolation regions	c) Epitaxial region
b) Same isolation regions	d) Photoresist region
e, essent accument regions	a) I notoresist region
16. To make p-n junctions reverse biased, wi	th respect to isolation region the p-type
substrate must also be held at?	
A) Zero	c) Positive potential
b) Unity	d) Negative potential
17 While apparating simult the inslation will	La Land (Colonia de La Colonia
17. While operating circuit, the isolation will a) Reverse biased	
b) Forward biased	c) Short circuited
70) Fol ward blased	d) Open circuited
18. To prevent the connection between two is	solation islands, the concentration of acceptor
ions between isolation regions should be	
a) Zero	Higher than that of the substrate
b) Lower than that of the substrate	d) Equal to that of the substrate.
Sequences of suf-	manifestation of the state of t
19. Using base diffusion step are formed	d on IC?
Transistor b) base regions Resistors	c) Resistors d) All of the above
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SRIBHARATH ENGINE	PRINCIPAL SRI BHARATHI ENGINEERING

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20.	In base diffusion stepimpur	rities are diffused?
	a) p-type	c) Both p & n-type
	b)n-type	None of the above.
21	The resistivity of the base layer is-	the isolation region?
	a) Equal to	Higher than
	b) Lower than	d) Reciprocal
1 22	In emitter diffusion step are	formed?
-	a) Transistor	c) Resistors
	b) emitters	d) Only a & c
23	Aluminum is a type impu	urity in a silicon
	a) N-type	c) Inert
	b) P-type	d) Metallic
24	a) A large concentration of phosph b) A large concentration of Silicon c) A large concentration of Polysil d) None of these	1
¥25	a) Emitter diffusion processb) Photolithography process	ing
	Epitaxial growth	
	d) Metallization process	

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Name of the Student: Raja Prab	q.m Year/Sem: TV/V
AU Register Number: 91261910	6010
Certificate Course on "Different	ent Methodologies For IC Design"
MCQ QUESTIO	NS (25X1 = 25 Marks)
2018 HOUR 20	mman (- 2%)
A. An IC contains	Both Passive and active elements
a) Passive elements	d) None of the above
b) Active elements	d) Notice of the above
2. The most complicated component fabrica	ated on IC is?
a) Diode	@ Transistor
b) Resistor	d) Conductor.
3. The bottom layer of an IC serves as?	pleasure out to proposition (a)
a) Connector layer	Substrate
b) Insulating layer	d) None of the above
 All the active and passive elements are g a) First substrate layer The second layer which is a single cry c) The SiO2 layer 	
c) The Slo2 layer	d) The Folysmoon layer
5. The substrate is typically of size?	
a) 25 mils thick	c) 2 mils thick
b) 16 mils thick	6 mils thick.
6. The second layer of IC is of mi	ls thickness?
a) 2 (8) 1	c) 5 d) 0
	and the warming local materials are as unsupposed and the William
7. The diffusion of impurities is done on the	
a) Substrate layer	c) SiO2 layer
Second layer	d) All of the above
8. IC fabrication depends upon?	18. To prevent the connection between two trolled
a) Materials	c) design technologies
b) process	all the above
Statedus will be take of laupis the	English artificial thad yours to
9 protects the wafer from contamination	ion due to impurities?
© SiO2 layer	c) Photo resist layer
b) Masks	d) Diffusion Dr. S.THILAGAVATHI M.E., Ph. E
	PRINCIPAL SRI BHARATHI ENGINEERING

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10. Selective etching is done using?	
a) Diffusion process	c) Metallization process
Thotolithography process	d) Masking process
11. Usually, the substrate of IC is made up of	
a) Germanium	-//
	Silicon SiO2
b) metal	d) Aluminum.
12. The process of forming an IC on a single :	silicon chip is known as
a) Single Process IC	c) Epitaxial IC
b) Monolithic IC	Pall the above
13. The process of forming an IC on a single s	silicon chin is known as
and Independent of the substrate	
b) Dependent on the substrate	c) Equal to that of the substrate
b) Dependent on the substrate	d) Zero
14 Silicon dioxide helps the penetration of ir	mpurities.
a) True	c) Partially
E False	d) All the above
	The second layer which is a single caye.
15. Silicon dioxide helps the penetration of in	
Different isolation regions	c) Epitaxial region
b) Same isolation regions	d) Photoresist region
16 To make n n innations reverse bissed with	Aprilla Brook (a
16. To make p-n junctions reverse biased, with substrate must also be held at?	n respect to isolation region the p-type
a) Zero	c) Positive potential
b) Unity	Negative potential
0 (0	Gringing position
17. While operating circuit, the isolation will	be lost if the p-n junction is
a) Reverse biased	c) Short circuited
(b) Forward biased	d) Open circuited
18 To prevent the connection between two iss	olation islands, the concentration of acceptor
ions between isolation regions should be	
a) Zero	Higher than that of the substrate
b) Lower than that of the substrate	d) Equal to that of the substrate.
- I - Construction with	
19. Using base diffusion step are formed	on IC?
a) Transistor b) base regions Resistors	c) Resistors (d) All of the above Dr. S.THILAGAVATHI M.E., Ph.D.,
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20.	In base diffusion stepimpur	ities are diffused?	
	a) p-type	c) Both p & n-type	
	(B) n-type	d) None of the above.	
_21/	The resistivity of the base layer is		
	a) Equal to .	Higher than	
	b) Lower than	d) Reciprocal	
122.	In emitter diffusion step are f		
/	a) Transistor	c) Resistors	
	b) emitters	Tonly a & c	
. 23.	Aluminum is a type impu	rity in a silicon	
	(a) N-type	c) Inert	
	b) P-type	d) Metallic	
24.	contact?	of the p-n junction when aluminium is used for ohmic	:
	(a) A large concentration of phosph	orus	
	b) A large concentration of Silicon		
	c) A large concentration of Polysil		
	d) None of these		
Pas.	The interconnections are made during	ing	
123	. The interconnections are made duri	mg	
1	Emitter diffusion process		
	b) Photolithography process		
	c) Epitaxial growth		
	d) Metallization process		

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Name of the Student: Thousal No	ayage. K Year/Sem: pinal year / iVIII
AU Register Number: 912618106	012
Certificate Course on "Different	ent Methodologies For IC Design"
MCQ QUESTIO	NS (25X1 = 25 Marks)
1. An IC contains	25
a) Passive elements	Both Passive and active elements
b) Active elements	d) None of the above
01 februs 1 17	The special algorithms
2. The most complicated component fabrica	ated on IC is?
a) Diode	e) Transistor
b) Resistor	d) Conductor.
C) Equal touther of the published (a)	placedusers to analymphist re-
3. The bottom layer of an IC serves as?	Charles on an holizonal id
a) Connector layer	Substrate
b) Insulating layer	d) None of the above
a) First substrate layer b) The second layer which is a single cry	
c) The SiO2 layer	d) The Polyshicon layer
5. The substrate is typically of size?	
a) 25 mils thick	c) 2 mils thick
b) 16 mils thick	et) 6 mils thick.
1	
6. The second layer of IC is of mi	ls thickness?
a) 2	c) 5 d) 0
7. The diffusion of impurities is done on the	nelayer?
a) Substrate layer	c) SiO2 layer
b) Second layer	d) All of the above
. 1	
8. IC fabrication depends upon?	
a) Materials	c) design technologies
b) process	d) all the above
9 protects the wafer from contaminati	
a) SiO2 layer	c) Photo resist layer
b) Masks	d) Diffusion Dr. S.THILAGAVATHI M.E., Ph.D.

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10. Selective etching is done using?	
a) Diffusion process	c) Metallization process
b) Photolithography process	d) Masking process
11. Usually, the substrate of IC is made up of-	
a) Germanium	Silicon SiO2
b) metal	d) Aluminum.
12. The process of forming an IC on a single s	ilicon chip is known as
a) Single Process IC	c) Epitaxial IC
b) Monolithic IC	all the above
13. The process of forming an IC on a single s	ilicon chip is known as
(a) Independent of the substrate	c) Equal to that of the substrate
b) Dependent on the substrate	d) Zero
14. Silicon dioxide helps the penetration of im	apurities reval emistical to
a) True	o) Partially
b) False	d) All the above
15. Silicon dioxide helps the penetration of imp	nurities
a) Different isolation regions	c) Epitaxial region
b) Same isolation regions	d) Photoresist region
by Same isolation regions	d) Photolesist region
16. To make p-n junctions reverse biased, with substrate must also be held at?	respect to isolation region the p-type
a) Zero	c) Positive potential
b) Unity	d) Negative potential
17) While operating circuit, the isolation will b	e lost if the n-n junction is
a) Reverse biased	c) Short circuited
b) Forward biased	d) Open circuited
(a) Torward blased	u) Open circuited
18. To prevent the connection between two iso ions between isolation regions should be	
a) Zero	c) Higher than that of the substrate
b) Lower than that of the substrate	d) Equal to that of the substrate.
(asimografia) sub gi	More of the water from contamination
19. Using base diffusion step are formed of	
a) Transistor b) base regions Resistors	c) Resistors de All of the above Dr. S.THILAGAVATHI M.E., Ph.D.,
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	COLLEGE FOR WOMEN
	Kaikkurchi - 622 303, Pudukkottai Dt.

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

	1	
20.	In base diffusion stepimpur	rities are diffused?
	a) p-type	c) Both p & n-type
	b) h-type	d) None of the above.
/	7	
-21.	The resistivity of the base layer is	
	a) Equal to .	Higher than
	b) Lower than	d) Reciprocal
1/22.	In emitter diffusion step are	formed?
/	a) Transistor	c) Resistors
	b) emitters	d) Only a & c
22/	74.1	wity in a silican
	Aluminum is a type impu	c) Inert
	, , , ,	
	b) P-type	d) Metallic
. 04	prevents the formation of	of the p-n junction when aluminium is used for ohmic
1	contact?	of the p-n junction when aluminium is used for ohmic
	a) A large concentration of phosph	
	b) A large concentration of Silicon	
	c) A large concentration of Polysil	
,	d)None of these	
_		
25.	The interconnections are made dur	ing
()	a) Emitter diffusion process	
	b) Photolithography process	
	c) Epitaxial growth	
	d) Metallization process	\wedge
		$\sim 1 \approx 1$
	1111	AGAVATHI M.E.,Ph.D.,
	Dr. S. I HILL	PRINCIPAL
	SRIBHA	RATHIENGINEER
	COLL	i - 622 303, Pudukkottai Dt.
	Kaikkurun	



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DEPARTMENT OF ELECTRONICS AND COMMUNICATIONENGINEERING ACADEMIC YEAR EVEN SEMESTER (2021-2022)

MARK SHEET FOR CERTIFICATE COURSE- DIFFERENT METHODOLOGIES FOR IC DESIGN

27 912618106007		NAGALAKSHMIP	YEAR	Attendance (A)		VAC -MCQ TEST (B)		OVERALL MARK(100)
S.NO	REGISTER NUMBER	NAME & BRANCH S	No.of Sessions Attented	Marks (100)	No.of Correct Answer	Marks (100)	(50% of A + 50% of B)	
1	912620106001	ABIRAMI S	II /ECE	10	100	22	88	94
2	912620106002	ANUSHYA M	II /ECE	10	100	19	76	88
3	912620106003	ARTHI S	II /ECE	10	100	18	72	86
4	912620106004	JEYASRI K	II /ECE	8	80	20	80	80
5	912620106006	SENPAGAHARINI V	II /ECE	10	100	20	80	90
6	912620106007	SONIYA P	II /ECE	10	100	18	72	86
7	912620106301	ABITHA S	II /ECE	10	100	19	76	78
8	912620106302	DESIKA G	II /ECE	9 .	90	18	72	81
9	912620106303	SABAREESWARI S	II /ECE	10	100	18	72	86
10	912620106304	SUBBULAKSHMI P	II /ECE	8	80	17	68	74
11	912619106001	AASHIMA M	III /ECE	10	100	22	88	94
12	912619106002	ANANTHI P	III /ECE	9	90	19	76	83
13	912619106004	JAFFARNISHA R	III /ECE	8	80	18	72 D	S.TH76AGA
14	912619106005	MAHESWARI K	III /ECE	10	100	19	76	88 PRIN

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		N. T. SLUID M. I. S. P. S. L.						
15	912619106006	MANISHA S	III /ECE	10	100	22	88	94
16	912619106007	MEGAVADHANA A	III /ECE	9	90	18	72	81
17	912619106008	PRIYANGA R	III /ECE	10	100	19	76	88
18	912619106009	RAGAVI V	III /ECE	8	80	21	84	82
19	912619106010	RAJAPRABA M	III /ECE	10	100	23	92	96
20	912619106011	SASIKA K	III /ECE	10	100	21	84	92
21	912618106001	ANUSHAA S	IV /ECE	10	100	23	92	96
22	912618106002	ARIVARASI A	IV /ECE	10	100	19	76	88
23	912618106003	ASMATH HAZEENA N	IV /ECE	8	80	19	76	78
24	912618106004	ATCHAYA R	IV/ECE	10	100	18	72	86
25	912618106005	JAYAPRIYA T	IV /ECE	8	80	23	82	81
26	912618106006	JAYASRI M	IV /ECE	8	80	18	72	76
27	912618106007	NAGALAKSHMI P	IV /ECE	10	100	18	72	86
28	912618106008	NAVITHRA D	IV /ECE	10	100	19	76	88
29	912618106009	ROHINI K	IV /ECE	9	90	18	72	81
30	912618106010	SOUNTHARYA P	IV /ECE	10	100	20	80	90
31	912618106012	THAIYAL NAYAGI K	IV /ECE	10	100	19	76	88
32	912618106701	JANANI.R	IV /ECE	10	100	18	72	86

Course Coordinator

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

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CERTIFICATE OF PARTICIPATION

This is to Certify that Mr/Ms. **ABIRAMI.S** (Reg.No: **912620106001**), **II** ECE has successfully completed Certificate Course on "Different Methodologies for IC Design" held at our college campus from 07.03.2022 to 11.03.2022 for the academic year 2021-2022.

COURSE COORDINATOR

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Criteria 2

Teaching-Learning and Evaluation

350

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

2021-2022

ELECTRONICS AND COMMUNICATION ENGINEERING PARTICIPATIVE LEARNING SYMPOSIUM, CONFERENCE WORKSHOP



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PARTICIPATIVE LEARNING (SYMPOSIUM/WORKSHOP/SEMINAR) ACADEMIC YEAR 2021-2022

S.No	Register No Student Name		Year/Sem	Name of the Learning Method (Participative learning)			
1	912618106003	ASMATH HAZEENA N	IV/VIII	Symposium-Paper Presentation			
2	912618106012	THAIYAL NAYAGI K		, and a second second			
3	912618106001	ANUSHAA S	IV/VIII	V 5			
4	912618106004	ATCHAYA R	TV/VIII	Symposium-Paper Presentation			
5	912618106003	ASMATH HAZEENA N					
6	912618106005	JAYAPRIYA T	IV/VII	(Workshop -Artificial Intelligence)			
7	912618106010	SOUNTHARYA P	10/011	Galwin Technology, Trichy			
8	912618106012	THAIYAL NAYAGI K					
9	912618106001	ANUSHAA S					
10	912618106003	ASMATH HAZEENA N					
11	912618106007	NAGALAKSHMI P	IV/VII	Workshop -Centroid of Engineering			
9	912618106009	ROHINI K		in AL And ML			
10	912618106010	SOUNTHARYA P					
11	912618106001	ANUSHAA S					
12	912618106002	ARIVARASI A	IV/VIII	Conference			
13	912618106003	ASMATH HAZEENA N					
14	912619106001	AASHIMA M					
15	912619106002	ANANTHI P					
16	912619106004	JAFFARNISHA R					
17	912619106005	MAHESWARI K					
18	912619106006	MANISHA S					
19	912619106007	MEGAVADHANA A	III/V	(Workshop - VLSI design using			
20	912619106008	PRIYANGA R		open source EDA ,Trichy)			
21	912619106009	RAGAVI V					
22	912619106010	RAJAPRABA M					
23	912619106011	SASIKA K					

Dr. S.THILAGAVATH M.E., Ph.D.,

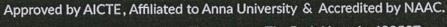
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A NATIONAL LEVEL TECHNICAL SYMPOSIUM

CERTIFICATE OF PARTICIPATION

This	certificate	is	presented	to ASMATH	HAZEENA N	of <u>s</u>	RI BARATHI	<u>ENGINEERI</u> NG
COLLE	GE FOR WO	MEN	for ha	ving partici	pated in PA	PER PRE	SENTATION	
at II	MPETUS '2	2 on	May 17, 20	122.				

COORDINATOR
(MR. S. GANESAN)

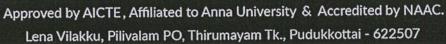
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Col	LEGE FOR INC	MEN	for hav	ving	participated in		PA PER	PR ESENTATION
1	MOSTUD /OD							

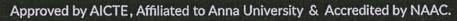
at IMPETUS '22 on May 17, 2022.

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COLLEGE FOR WOMEN	for having participate	d in PAPER	PRESENTATION	
at IMPETUS '22 o	n May 17, 2022.			
Ex.	Dr. S.THILAGAVATHI M.E., Ph.D.,		()	

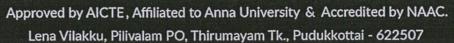
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COLLEGE FOR WOMEN	for having participated in _	PAPER P	RESENTATION	
at IMPETUS '22 on Ma	iy 17, 2022			

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[MR. S. GANESAN]

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Certificate of Participation

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for participating in the Three Days National Level Workshop on "CENTROID OF ENGINEERING IN Al & 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

Dillinguis

Dr.S.MUTHUKUMAR HOD - ECE

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Associate Professor - ECE

Dithikumi'

Dr.S.MUTHUKUMAR HOD - ECE

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Associate Professor - ECE

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Dr.8.MUTHUKUMAR

HOD - ECE

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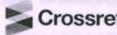
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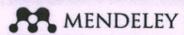
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Published a paper entitled

ENVISION OF CROPS TO PREVENT AND REDUCE THE USAGE OF PESTISIDES AND FERTILIZERS USING RASPBERRY PI & AI

Volume 11, Issue 6, June 2022

DOI: 10.17148/IJARCCE.2022.11678

Certificate#: IJARCCE/2022/4-4

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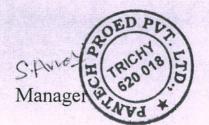
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