SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

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Dindigul – Palani Highway, Dindigul – 624 002

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE REPORT
ON

MATLAB PROGRAMMING

DATE:17-05-2021 to 21-05-2021

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS).,
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

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VALUE ADDED COURSE

ON

MATLAB PROGRAMMING

S.NO	CONTENT	PAGE NUMBER
1.	Circular	
2.	Syllabus	
3.	Students Name list	
4.	Event Report	
5.	Assessment Question paper	
6.	Assessment Marks	
7.	Feedback	
8.	Sample Certificates	

HoD/ECE 28/5/21

PRINCIPAL

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS).,
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002

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CIRCULAR   Date:12.05.2021

The Department of ECE has planned to conduct Value Added Course on "MATLAB Programming "for second year students from 17.05.2021 to 21.05.2021 through online mode. This Course aims to provide participants with a comprehensive introduction to MATLAB Programming and its applications in various fields. Students are asked to utilize this opportunity.

Co-Ordinators

1.Dr.Sujatha,AsP/ECE

2.Mrs.G.Saranya,AP/ECE

HoD/ECE

Dr.S.Karthigai Lakshmi

Principal

Dr.D.SenthilKumaran

Dr.D.SENTHIL KUMARAN, M.E.,Ph.D.,(MUS).,
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MATLAB Programming - Syllabus (17.05.2021 to 21.05.2021)

Sessions	Topics	Lectures
	DAY:1	**6 HOURS**
1	Introduction to MATLAB: What is MATLAB? Symbolic Calculations	
2	Basic of MATLAB: MATLAB Windows, On-line help, Input-Output	
3	File types, General commands	
	DAY:2	**6 HOURS**
1	The Basics: MATLAB Session, Creating & Working with Arrays of Numbers, Creating & Plotting Simple Plots Practice Set Solving	
2	The Basics: Creating, Saving, and Executing a Script File, Creating and Executing a Function File Practice Set Solving	
	DAY:3	**6 HOURS**
1	Directional Explorations: Working with Arrays and Matrices, Working with Anonymous Functions	
2	Symbolic Computation, Importing and Exporting Data, Working with Files and Directories	
3	Working with Files and Directories, Publishing Reports	
	DAY:4	**6 HOURS**
1	Matrices & Vectors: Input, Indexing, Matrix Manipulation, Creating Vectors	
2	Matrix and Array Operations: Arithmetic operations, Relational operations, Logical operations, Matrix functions	
3	Character strings: Manipulating character strings, The eval function	
4	Command- Line Functions: Inline functions, Anonymous functions	
	DAY:5	**6 HOURS**
1	Using Built-in Functions and On-line Help: Finding the determinant of a matrix,	
2	Saving and Loading Data: Saving into and loading from the binary Mat-files, Importing data files	
3	Plotting Simple Graphs, Course Completion Test	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course Summary 2020-2021

Course Name: MATLAB Programming

Course Duration: 40 hours

Year Offered: 2020-2021

Course Instructors: Dr.Sujatha,AsP/ECE
Mrs.G.Saranya,AP/ECE
SSMIET,Dindigul.

Course Outcome:

On completion of the course, students will be able to design, develop, and verify software systems to meet desired needs within realistic constraints , ensuring quality, reliability, security, and satisfying economical, ethical, social, and environmental constraints.
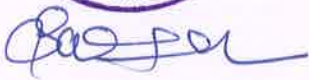
Course Type: Self Framed

Assessment Mode

Attendance: 40 hours

Number of Participants: 113

Scheme of Exam: MCQ

Course Co-ordinators

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

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VAC on MATLAB Programming

ATTENDANCE SHEET

S.NO	REGISTER NO.	NAME OF THE STUDENT	17.5.21	18.5.21	19.5.21	20.5.21	21.5.21
1.	922119106001	Abitha Devadharshini A G	/	/	/	/	/
2.	922119106002	Abufiyaz A	/	/	/	/	/
3.	922119106003	Afzar M	/	/	/	/	/
4.	922119106004	Akilesh S	/	/	ab	/	/
5.	922119106005	Ameer Arafath B	/	/	/	/	/
6.	922119106006	Amritha M	/	/	/	/	/
7.	922119106007	Amsath Meeran M	/	/	/	/	/
8.	922119106008	Archana Roy A	/	/	/	/	/
9.	922119106009	Arul Karthi K	/	/	/	/	/
10.	922119106010	Arul Nandhini R	/	/	/	/	/
11.	922119106011	Arun Karthick N.R	/	/	/	/	/
12.	922119106012	Asleena A	/	/	/	/	/
13.	922119106013	Aswini T	/	/	/	/	/
14.	922119106014	Ayesha Hajera S	/	/	/	/	/
15.	922119106015	Balaji G	/	/	/	/	/
16.	922119106016	Brundha G	/	/	/	/	/
17.	922119106017	Chandralekha K	/	/	/	/	/
18.	922119106018	Chitra S	/	/	/	/	/
19.	922119106019	Dharany M	/	/	/	/	/
20.	922119106020	Dheenu Gowtham S		/	/	/	/
21.	922119106021	Dinesh R	ab	/	/	/	/
22.	922119106022	Divya K	/	/	/	/	/
23.	922119106023	Divyadharshini M	/	/	/	/	/
24.	922119106024	Divyadharshini R	/	/	/	/	/
25.	922119106025	Domnic Vishal J	/	/	/	/	/
26.	922119106026	Febronia J	/	/	/	/	/
27.	922119106027	Gajendran B	/	/	/	/	/
28.	922119106028	Geetha Mai A G	/	/	/	/	/
29.	922119106029	Gokul Vinayagam M	/	/	/	/	/
30.	922119106030	Hariharan P	/	/	/	ab	/
31.	922119106031	Hari Prakash M	/	/	/	/	/
32.	922119106032	Hemadharshini S	/	/	/	/	/
33.	922119106033	Ijash Mohamed I	/	/	/	/	/
34.	922119106034	Jayasree M	/	/	/	/	/
35.	922119106035	Jeyakanthan M	/	/	/	/	/
36.	922119106036	Joicy I	/	/	/	/	/
37.	922119106037	Kalpana S	/	/	/	/	/
38.	922119106038	Keerthana M M	/	/	/	/	/
39.	922119106039	Keerthana T	/	/	/	/	/
40.	922119106040	Keerthika S	/	/	/	/	/

Dr.D.SENTHIL KUMARAN, M.E.,Ph.D., MISTE
Principal
SSM Institute of Engineering and Technology,
Kuttathupatti Village, Sindalagundu (PO),
Palani Road, Dindigul - 624 002

S.No	Register Number	Name					
41.	922119106041	Keerthivasan V	/	/	/	/	/
42.	922119106042	Kiruba Nandhini M	/	/	/	/	/
43.	922119106043	Kiruthika S	/	/	/	/	/
44.	922119106044	Kishore S	/	/	/	/	/
45.	922119106045	Koushalyaa B J	/	/	/	/	/
46.	922119106046	Kowsalya M	/	/	/	/	/
47.	922119106047	Krishna Priya K	/	/	/	/	/
48.	922119106048	Lakshmi Preetha S	/	/	/	/	/
49.	922119106049	Leka S	/	/	/	ab	/
50.	922119106051	Madhumitha B	/	/	/	/	/
51.	922119106052	Mahalakshmi R M	/	/	/	/	/
52.	922119106053	Malini S	/	/	/	/	/
53.	922119106054	Manoranjitham G	/	/	/	/	/
54.	922119106055	MaruthamalaiayyanrajA A	/	/	/	/	/
55.	922119106056	Mohan Raj S	/	/	/	/	/
56.	922119106057	Muhajir Rahman H	/	/	/	/	/
57.	922119106058	Muniyappan P	/	/	/	/	/
58.	922119106059	Muthu Kumar S	/	/	/	/	/
59.	922119106060	Muthu Kumaran S U	/	/	/	/	/
60.	922119106061	Muthusurya R	/	/	/	/	/
61.	922119106062	Naga Praba K	/	/	/	/	ab
62.	922119106063	Nishanthini S	/	/	/	/	/
63.	922119106064	Nishitha Joan I	/	/	/	/	/
64.	922119106065	Nivetha M	/	/	/	/	/
65.	922119106066	Nivetha S	/	/	/	/	/
66.	922119106067	Nivetha S	/	/	/	/	/
67.	922119106069	Oviya M	/	ab	/	/	/
68.	922119106070	Pandi Devi S	/	/	/	/	/
69.	922119106071	Parameshwari S	/	/	/	/	/
70.	922119106073	Pranav Sriram V	/	/	/	/	/
71.	922119106074	Priyadharshini S	/	/	/	/	/
72.	922119106075	Rajesh S	/	/	/	/	/
73.	922119106076	Ranjani M	/	/	/	/	/
74.	922119106078	Renuka P	/	/	/	/	/
75.	922119106079	Revathy S	/	/	/	/	/
76.	922119106080	Ruthra Sivaguru K	/	/	/	/	/
77.	922119106081	Sabaree Raj R	/	/	/	/	/
78.	922119106082	Sabarees V	/	/	/	/	/
79.	922119106083	Samyuktha B	/	/	/	/	/
80.	922119106084	Santhosh T	/	/	/	/	/
81.	922119106085	Santhosh Kumar G	/	/	/	/	/
82.	922119106086	Santhosh Kumar S	/	/	/	/	/
83.	922119106087	Sarath Kumar S	/	/	ab	/	/
84.	922119106088	Saravana Kumar M	/	/	/	/	/
85.	922119106089	Sasi Kumar M	/	/	/	/	/
86.	922119106090	Senthil Nathan S	/	/	/	/	/
87.	922119106091	Shalini S	/	/	/	/	/
88.	922119106092	Shanjuvikasini J	/	/	/	/	/
89.	922119106093	Sharmila Srinithi R	/	/	/	/	/
90.	922119106094	Shobana M	/				
91.	922119106095	Sithara R	/				
92.	922119106096	Siva Kumar	/				

Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

93.	922119106097	Sneha S	/	/	/	/	/
94.	922119106098	Sneka R	/	/	/	/	/
95.	922119106099	Sowmiya M	/	/	/	/	/
96.	922119106100	Sowmiya S	/	/	/	/	/
97.	922119106101	Sridhar R	/	/	/	ab	/
98.	922119106102	Sudharsun B	/	/	/	/	/
99.	922119106103	Sujan P	/	/	/	/	/
100	922119106104	Sujith Kumar M	/	/	/	/	/
101	922119106105	Surya Prakash C	/	/	/	/	/
102	922119106106	Suvetha R	/	/	/	/	/
103	922119106107	Tamilarasan M	/	/	/	/	/
104	922119106108	Taran Raja P	/	/	/	/	/
105	922119106109	Thirupathi R	/	/	/	/	/
106	922119106110	Varunkumar R	ab	/	/	/	/
107	922119106111	Vedha R	/	/	/	/	/
108	922119106112	Vengadesh G	/	/	/	/	/
109	922119106113	Yamini S	/	/	/	/	/
110	922119106301	Abiramai T	/	/	/	/	/
111	922119106302	Vignesh R	/	ab	/	/	/
112	922119106303	Vishwa Kesan R	/	/	/	/	/
113	922119106501	Mohamed Arsath S	/	/	/	/	/

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENTS NAMELIST

S.NO	REGISTER NO.	NAME OF THE STUDENT	SIGNATURE
1.	922119106001	ABITHA DEVADHARSHINI A G	
2.	922119106002	ABUFIYAZ A	
3.	922119106003	AFZAR M	
4.	922119106004	AKILESH S	
5.	922119106005	AMEER ARAFATH B	
6.	922119106006	AMRITHA M	
7.	922119106007	AMSATH MEERAN M	
8.	922119106008	ARCHANA ROY A	
9.	922119106009	ARUL KARTHI K	
10.	922119106010	ARUL NANDHINI R	
11.	922119106011	ARUN KARTHICK N.R	
12.	922119106012	ASLEENA A	
13.	922119106013	ASWINI T	
14.	922119106014	AYESHA HAJERA S	
15.	922119106015	BALAJI G	
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18.	922119106018	CHITRA S	
19.	922119106019	DHARANY M	
20.	922119106020	DHEENU GOWTHAM S	
21.	922119106021	DINESH R	
22.	922119106022	DIVYA K	
23.	922119106023	DIVYADHARSHINI M	
24.	922119106024	DIVYADHARSHINI R	
25.	922119106025	DOMNIC VISHAL J	
26.	922119106026	FEBRONIA J	
27.	922119106027	GAJENDRAN B	
28.	922119106028	GEETHA MAI A G	
29.	922119106029	GOKUL VINAYAGAM M	
30.	922119106030	HARIHARAN P	
31.	922119106031	HARI PRAKASH M	
32.	922119106032	HEMADHARSHINI	
33.	922119106033	IJASH MOHAMED I	

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS).,
Principal
SSM Institute of Engineering and Technology,
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

34.	922119106034	JAYASREE M	
35.	922119106035	JEYAKANTHAN M	
36.	922119106036	JOICY I	
37.	922119106037	KALPANA S	
38.	922119106038	KEERTHANA M N	
39.	922119106039	KEERTHANA T	
40.	922119106040	KEERTHIKA S	
41.	922119106041	KEERTHIVASAN V	
42.	922119106042	KIRUBA NANDHINI M	
43.	922119106043	KIRUTHIKA S	
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47.	922119106047	KRISHNA PRIYA K	
48.	922119106048	LAKSHMI PREETHA S	
49.	922119106049	LEKA S	
50.	922119106051	MADHUMITHA B	
51.	922119106052	MAHALAKSHMI R M	
52.	922119106053	MALINI S	
53.	922119106054	MANORANJITHAM G	
54.	922119106055	MARUTHAMALAIAYYANRAJ	
55.	922119106056	MOHAN RAJ S	
56.	922119106057	MUHAJIR RAHMAN H	
57.	922119106058	MUNIYAPPAN P	
58.	922119106059	MUTHU KUMAR S	
59.	922119106060	MUTHU KUMARAN S U	
60.	922119106061	MUTHUSURYA R	
61.	922119106062	NAGA PRABA K	
62.	922119106063	NISHANTHINI S	
63.	922119106064	NISHITHA JOAN I	
64.	922119106065	NIVETHA M	
65.	922119106066	NIVETHA S	
66.	922119106067	NIVETHA S	
67.	922119106069	OVIYA M	
68.	922119106070	PANDI DEVI S	
69.	922119106071	PARAMESHWARI S	
70.	922119106073	PRANAV SRIRAM V	
71.	922119106074	PRIYADHARSHINI S	
72.	922119106075	RAJESH S	
73.	922119106076	RANJANI M	
74.	922119106078	RENUKA P	
75.	922119106079	REVATHY S	
76.	922119106080	RATHRA SIVAGURU K	
77.	922119106081	SABAREE RAJ R	
78.	922119106082	SABAREES V	
79.	922119106083	SAMYUKTHA B	

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SSM Institute of Engineering and Technology
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80.	922119106084	SANTHOSH T	
81.	922119106085	SANTHOSH KUMAR G	
82.	922119106086	SANTHOSH KUMAR S	
83.	922119106087	SARATH KUMAR S	
84.	922119106088	SARAVANA KUMAR M	
85.	922119106089	SASI KUMAR M	
86.	922119106090	SENTHIL NATHAN S	
87.	922119106091	SHALINI S	
88.	922119106092	SHANJUVIKASINI J	
89.	922119106093	SHARMILA SRINITHI R	
90.	922119106094	SHOBANA M	
91.	922119106095	SITHARA R	
92.	922119106096	SIVA KUMAR S	
93.	922119106097	SNEHA S	
94.	922119106098	SNEKA R	
95.	922119106099	SOWMIYA M	
96.	922119106100	SOWMIYA S	
97.	922119106101	SRIDHAR R	
98.	922119106102	SUDHARSUN B	
99.	922119106103	SUJAN P	
100.	922119106104	SUJITH KUMAR M	
101.	922119106105	SURYA PRAKASH C	
102.	922119106106	SUVETHA R	
103.	922119106107	TAMILARASAN M	
104.	922119106108	TARAN RAJA P	
105.	922119106109	THIRUPATHI R	
106.	922119106110	VARUNKUMAR R	
107.	922119106111	VEDHA R	
108.	922119106112	VENGADESH G	
109.	922119106113	YAMINI S	
110.	922119106301	ABIRAMAI T	
111.	922119106302	VIGNESH R	
112.	922119106303	VISHWA KESAN R	
113.	922119106501	MOHAMED ARSATH S	

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Report on Value Added Course
INTRODUCTION TO MATLAB PROGRAMMING
Held on 17-05-2021 to 21-05-2021

Date of Event	**17-05-2021 to 21-05-2021**
Name and Type of Event	Value Added Course Introduction to MATLAB Programming
Conducted by	**Dr.C.Sujatha,Mrs.G.saranya**
No. Of Participant	**113**

The Value-Added Course - Introduction to MATLAB PROGRAMMING was organized from 11-05-2022 to 7-06-2022, in the Department of Electronics and Communication Department, SSMIET, Dindigul. The Program was coordinated by Dr.C.Sujatha and Mrs.G.saranya.

In this course, students will able to

• Apply knowledge of mathematics and science in solving computational problems

• Understand the Computing concepts and their applications using the acquired board-based knowledge.

• Design, set up, and conduct practical.

• Use the techniques, skills, and modern Software tools for software development.

• Identify and analyze software application problems in multiple aspects including coding, testing, and implementation in industrial applications.

• Design, develop, and verify software systems to meet desired needs within realistic constraints, ensuring quality, reliability, security, and satisfying economical, ethical, social, and environmental constraints.

• Apply Enterprise-level application software for the design of diverse software products.

• Communicate effectively in diverse groups and exhibit leadership qualities.

• Understanding of professional and ethical responsibility.

The value-added course was initiated by Dr.C.Sujatha on 11-05-2022 in the Embedded and Networks Lab of the Dept. of ECE from 10:00 AM. All the students had joined the course and learned about the MATLAB and learnt how to solve the lengthy mathematical problems in an easy way. Every day they were given some assignment work to do more practice. This course was completely practical-based. On the last day of the program students had appeared in the test and qualified the above-mentioned value-added course with the minimum criteria.

Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MUS).,
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

VAC on MATLAB Programming

People	Information	
Asleena A		
Aswin Dev		
Chandralekha K		
Chitra Selvam		
Dharany M		
DHEENU Gowtham		
Dinesh		
Divya Dharshini R		
Divya Dharshini R		
Divya k		
Divyadharshini.M		
Domnic Vishal		
FEBRONIA JEROME		

About this call

People	Information	
M Jeyalakshmi Mur...		
M Kiruba Nandhini		
Madhumitha B		
Mahalakshmi R M		
Malini S		
MaruthamalaiAyyan...		
Muniyappan P		
Muthu kumaran. S.U		
Nishitha Joan		
Nivetha .M Nivetha .M		
Nivetha Sundharaj-66		
Oviya M		
Parameshwari		

← About this call

People	Information	
Abu Fiyaz		
Afzar M		
Ameer Arafath		
Amritha M		
Archana Roy.A		
Arul Karthi		
Arul Nandhini		
Arun Karthick		
Asleena A		
Ayesha Doll		
Balaji Ganesan		
Brundha Kavi		

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name:

Regno:

Year:

AssessmentQuestionpaper

1. Index of an array in MATLAB start with
a)0
b).1
c.) Depends on the class of array
d). Unknown

2. What is the return type of angles function in MATLAB ?
a) Degrees
b) Radians
c) Radians & Degrees
d) Depends on the argument

3. What is use of abs function in Matlab?.
a) returns the square root of number.
b). returns magnitude of a number.
c). returns power of number
d). None of these

4. What will be the output of atan2(-1,1) in Matlab?
a)Error
b)pi/4
c)0.7854

5. Which character is used to print new line in a fprintf statement?
a) \n
b) \nl
c) \nml
d) \nxt

6. How to clear the command window in matlab?
a) clear
b) clc
c) close all
d) clear all

7. _____ is used to check if two elements are equal in MATLAB?

a) !=
b)==
c) isequal
d)=

8. What are the features of Matlab?
a) Full Graphics Capabilities
b) Platform Independent
c) Ease of Use & Good Source of Help
d) All of the above

9. Which of the following command lists the current variable in Matlab?

a) Type
b) Who
c) Pwd
d) Date

10. Which of the following is the the output of cat=['cat' 'dog']?
a) cat dog
b) cat&dog
c) Catdog
d) CatDog

11. What is output of A = [1 0 2]; b = [3 0 7]; c=a.*b;
a) [2 0 21]
b) [3 0 14]
c) [14 0 3]
d) 7 0 3]

12. Which of the following Matlab command clears all data and variables stored in memory?
a) clear
b) clc
c) delete
d) None of the above

13. The continue statement exits the current iteration In nested loops.
a)True
b)False

14. .... is not a pre-defined variable in Matlab.
a) inf
b)pi
c)i
d) gravity

15. Keys combition used to stop execution of a command in MATLAB?
a) ctrl+c
b) ctrl+s
c) ctrl+b
d) ctrl+enter

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name: Renuka. P
Regno: 922119106070
Year: II - ECE

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Dindigul – Palani Highway, Dindigul – 624 002

Certificate of Completion

This is to certify

that Ms. LEKA S of II Year ECE has participated in the 5 days value added course on

" MATLAB Programming" from 17-05-2021 to 21-05-2021 in SSM Institute of Engineering and Technology,Dindigul.

COURSE INSTRUCTOR

HOD/ECE

PRINCIPAL

Dr.G.SENTHIL KUMARAN, M.E, Ph.D., (MBA)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
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Dindigul – Palani Highway, Dindigul – 624 002

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This is to certify

that Mr. SRIDHAR R of II Year ECE has participated in the 5 days value added course

on " MATLAB Programming" from 17-05-2021 to 21-05-2021 in SSM Institute of

Engineering and Technology,Dindigul.

COURSE INSTRUCTOR

HOD/ECE

PRINCIPAL

Dr.D.SENTHIL KUMARAN, M.E.,Ph.D.,(HOD)
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Dindigul – Palani Highway, Dindigul – 624 002

Certificate of Completion

This is to certify

that Ms. ASWINI T of II Year ECE has participated in the 5 days value added course

on " MATLAB Programming" from 17-05-2021 to 21-05-2021 in SSM Institute of

Engineering and Technology,Dindigul.

COURSE INSTRUCTOR

HOD/ECE

PRINCIPAL

Dr.D.SENTHIL KUMARAN, M.E.,Ph.D.,MISTE
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.