ThallapakaPanchayath, New Boyanapalli, Rajampet, Annamayya Dist., A.P. - 516126 (Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU Anantapur, Anantapuramu) (Institute Accredited by NAAC, Bangalore) (Institute Accredited by IE(I), Kolkata) Accredited by NBA (CSE,ECE & EEE), Autonomous conferred by UGC, New Delhi under Section 2(f) & 12 (B)

Date: 30-08-2022.

From

Dr. CH. Nagaraju

Head of the Department

Electronics and Communication Engineering

AITS, Rajampet.

The Principal

AITS, Rajampet.

New Boyanapally-516126.

Respected Sir,

Sub: Requisition to conduct Value Added Course for II B.Tech I Sem ECE Students-Reg.

The Department of Electronics and Communication Engineering would like to conduct Value Added Course in HANDS ON PROGRAMMING ON MATLAB for the II B.Tech I Sem students during the academic year 2022-23 from 12.09.2022 to 29.09.2022. In this regard, we request you to kindly approve the vowing Value added Course and do the needful. This Value Added Course is not part of the Curriculum.

S.No	Course Title	Code allotted	Category	Lecture Hours
1	Hands on Programming on MATLAB	22VACECE01	Value added	32

Thanking you,

Electronics & Communication Engineering Annamacharya Institute of Technology & science New Boxanapallis Rajaarperps 16 126.2



College Code: 70

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES :: RAJAMPET

Approved by AICTE, New Delhi. Affiliated to Jawaharlal Nehru Technological University Anantapur B.Tech: EEE, ECE & CSE courses Accredited by NBA, New Delhi. Accredited by NAAC with 'A' Grade Recognized by UGC, New Delhi under sections 2(f) & 12(B) as per UGC act 1956. Institutional Member of ISTE

CIRCULAR

Date: 02-09-2022

It is informed that Value added course on titled "Hands on Programming on MATLAB" will be conducted from 12-09-2022 to 29-09-2022. Registration will be on First Come First serve basis. Students are asked to enroll your names for the above mentioned course as earlier as possible.

HOD and respective department staff member instructed to follow up the same. Your whole hearted cooperation is needed to conduct the session in a gentle manner.

Last date for registration: 07-09-2022

Course Coordinator: S.Karimullah.

Mail ID: munnu483@gmail.com.

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PRINCIPAL

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES NEW BOYANAPALLI-516 126

RAJAMPET, ANNAMAYYA Dist. A.P.



ANNAMA CHARYA INSTITUTE OFTECHNOLOGY & SCIENCES (AUTONOMOUS)

Thallapaka Panchayat, New Boyanapalli-516126, Rajampet, Kadapa (Dist.), Andhra Pradesh.
(An AICTE Approved, JNTUA Ananthapuramu, A.P., affiliated & NAAC 'A' accredited Institution)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Organizes

A Value Added Course on "Hands on Programming on MATLAB" 12.09.2022 to 29.09.2022

Resource Person: Mr.M. Venkata Dasu, Assistant Professor, AITS, Rajampet

- * This Course is not relevance to the curriculum
- Certificates will be provided after successful Assessment Test

Visit us: www.aitsrajampet.ac.in

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VALUE ADDED COURSE

ON

HANDS ON PROGRAMMING ON MATLAB

	Learning	Ob	jectiv	es:
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- 1. To learn features of MATLAB as a programming tool.
- To promote new teaching model that will help to develop programming skills and technique to solve mathematical problems.
- 3. To understand MATLAB graphic feature and its applications.
- 4. To use MATLAB as a simulation tool.

Unit 1. Introduction to MATLAB.

07

- The MATLAB Environment
- MATLAB Basics Variables, Numbers, Operators, Expressions, Input and output.
- Vectors, Arrays Matrices

Unit 2. MATLAB Functions.

06

- Built-in Functions
- User defined Functions

Unit 3. Graphics with MATLAB.

06

- Files and File Management Import/Export
- Basic 2D, 3D plots
- Graphic handling

Unit 4. Programming with MATLAB

07

- Conditional Statements, Loops
- MATLAB Programs Programming and Debugging.
- Applications of MATLAB Programming

Unit 5. Mathematical Computing with MATLAB.

06

- Algebraic equations
- Basic Symbolic Calculus and Differential equations
- Numerical Techniques and Transforms

References:

- 1. "A Guide to MATLAB for Beginners and Experienced Users", 2nd Ed., Brian R. Hunt, Ronald L. Lipsman, Jonathan M. Rosenberg, Cambridge University Press, (2006).
- "Essentials of MATLAB Programming", 2nd Ed., Stephen J. Chapman, Cengage Learning, (2009).
- 3. "MATLAB Demystified", David McMahon, The McGraw-Hill Companies, (2007).
- 4. "MATLAB® for Engineers", 3rd Ed., Holly Moore, Pearson Education, Inc., (2012).
- 5. "Engineering computation with MATLAB", 2nd Ed., David M. Smith, Pearson Education, Inc., (2010).

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COURSE OUTCOMES:

Students will be able to

- Write a MATLAB code for mathematical problem-solving and Implement loops, conditionals, functions in MATLAB.
- 2. Create 2D and 3D plots for data and functions.
- 3. Model and simulate systems in various domains.
- 4. Understand diverse real-world applications of MATLAB.

CO-PO Mapping:

со	P01	P02	P03	P04	P05	P06	PO7	P08	P09	PO10	PO11	PO12	PSO1	PS02	PS03
22VACECE01.1	3	2	2	2						-	•	2	3	2	2
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22VACECE01.3	3	2	3	2	•							2	3	2	2
22VACECE01.4	3	2	2	3	•							2	3	2	3

HEAD OF THE DEPARTMENT

Head of the Department
Electronics & Communication Engineering
Annamacharya Institute of Technology & Schooles
New Boyanapalli, Rajamper-516 125.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE 2022-23

COURSE NAME: HANDS ON PROGRAMMING ON MATLAB COURSE CODE: 22VACECE01

RESOURCE PERSON DETAILS

M.Venkata Dasu is an Assistant Professor in the Department of Electronics and Communication Engineering at Annamacharya Institute of Technology and Sciences, Rajampet, Andhra Pradesh, India. He is pursuing Ph.D in Jawaharlal Nehru Technological University Anantapur, Anantahpuramu. He graduated from JNTU Hyderabad in 2004 and received a Master's Degree in Digital Electronics and Communication Systems from JNTU, Hyderabad. He has published multiple articles in prestigious International Journals and Conferences, showing his competence and engagement with cutting-edge research and advances in the field of Electronics and Communication Engineering.

Furthermore, M. Venkata Dasu has demonstrated his commitment to mentorship and academic guidance by supervising numerous students at both the M.Tech and B.Tech levels. Through his mentorship, he has nurtured and guided aspiring engineers, fostering their growth and development in the field.

Head of the Department

Head of the Department

Electronics & Communication Engineering

Annamacharya Institute of Technology

Annamacharya Institute of Technology

New Boyanapalli, Rajampet-516 126.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VALUE ADDED COURSE

ON HANDS ON PROGRAMMING ON MATLAB (22VACECE01) STUDENT ENROLLMENT LIST

S.No	H.T.No	Student Name
1.	21701A0401	ABDUL AZEEZ SHAIK
2.	21701A0405	ADARSHA KUMAR .C
3.	21701A0407	ALISHA THONDURU
4.	21701A0415	BALAJI ANUMALA
5.	21701A0418	BHARATH KUMAR CHATAKONDU
6.	21701A0421	BHAVANI JOKA
7.	21701A0424	CHANDANA PRIYA CHAPPALI
8.	21701AD438	FATIMA JABEEN SHAIK
9.	21701A0440	GANGA BHAVANI .B
10.	21701A0454	HEMA GADHAMSETTY
11.	22705A0401	ADISESHU PULICHERLA
12.	22705A0402	AFREEN GS
13.	22705A0405	BABA FAROOQ SYED
14.	22705A0411	GOPALAKRISHNA PUJARI
15.	22705A0412	GOWTHAMI K
16.	21701A0457	JAHNAVI BHUCHUPALLI
17.	21701A0458	JANARDHANA GANDIKOTA
18.	21701A0460	JHANSI RANI GADIRAJU
19.	21701A0463	KARTHIK KUMAR REDDY .V
20.	21701A0465	KEERTHI GOVINDUPALLI
21.	21701A0469	LAKSHMI NARASIMHA REDDY.R
22.	21701A04B3	PENCHALAMMA MANDA
23.	21701A04C5	RAJA RAJESWARI PAMALA
24.	21701A04I0	SURESH BABU BHUMIREDDY
25.	21701A04K9	VUAYA LAKSHMI NAYAKANTI

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VALUE ADDED COURSE

ON

HANDS ON PROGRAMMING ON MATLAB (22VACECE01) STUDENTS ATTENDENT SHEET

		Date:		19.09.	2022	20.09.	2022	21.09	.2022	22.09	.2022	23.09	.2022	24.09	.2022
S.No	H.T.No	Student Name	Year	03:00-	04:00- 05:00	03:00- 04:00	04:00- 05:00	03:00-	04:00- 05:00	03:00- 04:00	04:00- 05:00	03:00- 04:00	04:00- 05:00	03:00- 04:00	04:00- 05:00
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		Date:		26.09.	2022	27.09	.2022	28.09	.2022	29.0	9.2022
S.No			Year	03:00-	04:00-	03:00-	04:00-	03:00-	04:00-	03:00-	04:00-
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COURSE NAME: HANDS ON PROGRAMMING ON MATLAB.

COURSE CODE: 22VACECE01

QUESTION PAPER

Name of the student	
H.T.No	
Year & Department	
Marks obtained	
Signature of the staff	

- 1. What does MATLAB stand for?
 - a. Matrix Laboratory
 - b. Mathematical Analysis Tool for Laboratory
 - c. Multi-dimensional Array Laboratory
 - d. Manipulation and Transformation Laboratory
- 2. Which MATLAB function is used for creating a plot?
 - a. plot()
 - b. createPlot()
 - c. drawGraph()
 - d. makeChart()
- 3. In MATLAB, what is the purpose of the "zeros" function?
 - a. It generates an array of ones.
 - b. It creates an array with all elements set to zero.
 - c. It generates a random array.
 - d. It creates an identity matrix.
- 4. What is Simulink used for in MATLAB?
 - a. Data analysis
 - b. Image processing
 - c. Signal processing
 - d. System modeling and simulation
- 5. Which command is used to define a function in MATLAB?
 - a. def
 - b. func
 - c. define
 - d. function
- 6. What does the "end" keyword signify in a MATLAB script or function?
 - a. End of the program
 - b. End of a loop or conditional statement
 - c. End of a function definition
 - d. End of a variable declaration
- 7. Which MATLAB tool is suitable for solving a system of linear equations?
 - a. linSolve()
 - b. solveLinear()

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- c. linsolve()
- d. solveSystem()
- 8. What does the "imshow" function do in MATLAB?
 - a. Display an image
 - b. Show the command history
 - c. Plot mathematical functions
 - d. Display the contents of a matrix
- 9. Which MATLAB function is used for reading data from a file?
 - a. load ()
 - b. import ()
 - c. read Data()
 - d. open File()
- 10. What is the purpose of the "clc" command in MATLAB?
 - a. Clear the console
 - b. Close the current figure
 - c. Clear all variables in the workspace
 - d. Create a new command line

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

Head of the Department
Electronics & Communication Engineering
Annamacharya Institute of Technology & Sciences
New Boyanapalli, Rajampet-516 126.

ThallapakaPanchayath, New Boyanapalli, Rajampet, Annamayya Dist., A.P. – 516126
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE 2022-23
COURSE NAME: HANDS ON PROGRAMMING ON MATLAB.
COURSE CODE: 22VACECE01
ANSWER KEY

- 1. What does MATLAB stand for?
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 - b. Mathematical Analysis Tool for Laboratory
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COURSE COORDINATOR

Electronics & Commonic Annamacharya Institute of Technology & sciences New Boyanapalli, Rajampet-516 126.

ThallapakaPanchayath, New Boyanapalli, Rajampet, Annamayya Dist., A.P. – 516126
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE 2022-23
COURSE NAME: HANDS ON PROGRAMMING ON MATLAB..
COURSE CODE: 22VACECE01

RULES FOR ASSESSING VAC TEST

- Learners will get a certificate after they have registered for written the exam and successfully passed.
- The students who have successfully completed the value added course shall be issued with a certificate duly signed by the authorised signatures.
- The passing requirement for Value added Course shall be 60% of the marks prescribed for the course.

Head of the Department
Electronics & Communication Engineering
Annamacharya Institute of Technology You. 38
New Boyanapalli, Rajampet-516 126.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE NAME: HANDS ON PROGRAMMING ON MATLAB.
COURSE CODE: 22VACECE01

MARKS STATEMENT

S.No			Total
	H.T.No	Student Name	(20M)
1.	21701A0401	ABDUL AZEEZ SHAIK	16
2.	21701A0405	ADARSHA KUMAR .C	18
3.	21701A0407	ALISHA THONDURU	14
4.	21701A0415	BALAJI ANUMALA	19
5.	21701A0418	BHARATH KUMAR CHATAKONDU	19
6.	21701A0421	BHAVANI JOKA	20
7.	21701A0424	CHANDANA PRIYA CHAPPALI	14
8.	21701A0438	FATIMA JABEEN SHAIK	17
9.	21701A0440	GANGA BHAVANI .B	17
10.	21701A0454	HEMA GADHAMSETTY	15
11.	22705A0401	ADISESHU PULICHERLA	14
12.	22705A0402	AFREEN GS	18
13.	22705A0405	BABA FAROOQ SYED	19
14.	22705A0411	GOPALAKRISHNA PUJARI	19
15.	22705A0412	GOWTHAMI K	20
16.	21701A0457	JAHNAVI BHUCHUPALLI	13
17.	21701A0458	JANARDHANA GANDIKOTA	15
18.	21701A0460	JHANSI RANI GADIRAJU	17
19.	21701A0463	KARTHIK KUMAR REDDY .V	14
20.	21701A0465	KEERTHI GOVINDUPALLI	16
21.	21701A0469	LAKSHMI NARASIMHA REDDY.R	19
22.	21701A04B3	PENCHALAMMA MANDA	17
23.	21701A04C5	RAJA RAJESWARI PAMALA	15
24.	21701A04I0	SURESH BABU BHUMIREDDY	15
25.	21701A04K9	VIJAYA LAKSHMI NAYAKANTI	18

Kamil a. 22 COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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COURSE NAME: HANDS ON PROGRAMMING ON MATLAB.

COURSE CODE: 22VACECE01

Date: 29/09/2012

QUESTION PAPER

Name of the student	J. Bhalani J. K. Vani
H.T.No	21701/10421
Year & Department	IP Blech Isom FCF
Marks obtained	
Signature of the staff	

- 1. What does MATLAB stand for?
 - . Matrix Laboratory
 - b. Mathematical Analysis Tool for Laboratory
 - c. Multi-dimensional Array Laboratory
 - d. Manipulation and Transformation Laboratory
- 2. Which MATLAB function is used for creating a plot?
 - a. plot()
 - b. createPlot()
 - c. drawGraph()
 - d. makeChart()
- 3. In MATLAB, what is the purpose of the "zeros" function?
 - a. It generates an array of ones.
 - b. It creates an array with all elements set to zero.
 - c. It generates a random array.
 - d. It creates an identity matrix.
- 4. What is Simulink used for in MATLAB?
 - a. Data analysis
 - b. Image processing
 - c. Signal processing
 - d. System modeling and simulation
- 5. Which command is used to define a function in MATLAB?
 - a. def
 - b. func
 - c. define
 - d. function
- 6. What does the "end" keyword signify in a MATLAB script or function?
 - a. End of the program
 - b. End of a loop or conditional statement
 - c. End of a function definition
 - d. End of a variable declaration
- 7. Which MATLAB tool is suitable for solving a system of linear equations?
 - a. linSolve()
 - b. solveLinear()



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COURSE COORDINATOR

HEAD OF THE DEPARTMENT

Head of the Department
Electronics & Communication Engineering
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COURSE NAME: HANDS ON PROGRAMMING ON MATLAB.

COURSE CODE: 22VACECE01

Date: 29/09/2022

QUESTION PAPER

Name of the student	G.S. Afreen
H.T.No	22705A0402
Year & Department	TIT ECE
Marks obtained	•
Signature of the staff	

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Kamy 20.09.22

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

Head of the Department
Electronics & Communication Engineering
Annamacharya Institute of Technology & Sciences
New Boyanapalli, Rajampet-516 126.

ANNAMACHARYA INSTITUTE OF TECNOLOGY AND SCIENCES: RAJAMPET (AUTONOMOUS) DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE 2022-23 STUDENT FEEDBACK FORM

Code and Name of the Value Added Course	VCEC2201-Hands on Programming on MATLAB
Name of the Student	
Year & Semester	

Following the completion of course, participants provided feedback form and the detailed list is listed below.

You are required to give your feedback on the following aspects

S.No	Criteria	Rating (Put	Rating (Put √ in the appropriate column)									
		Excellent	Very Good	Good	Fair	Satisfactory						
1.	Course Content											
2.	Coverage of sylabus											
3.	Interaction											
4.	Individual Attention											
5.	Outcome											

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 30-09-2022

VALUE ADDED COURSE 2022-23
COURSE NAME: Hands on Programming on MATLAB
COURSE CODE: 22VACECE01

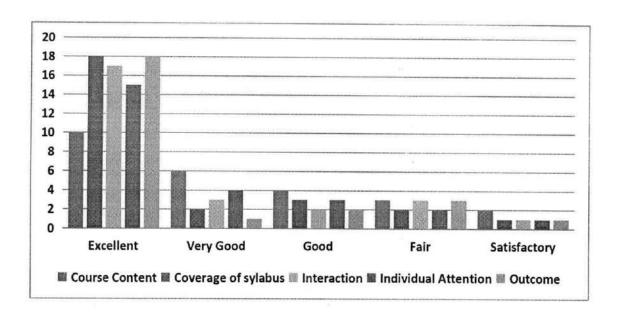
STUDENT FEEDBACK REPORT

The II B.Tech I Sem ECE students of around 25 have completed the Value Added Course- Hands on Programming on MATLAB from 12-09-2022 to 29-09-2022. The student feedback of the course has been consolidated into five categories is shown below.

Course Feedback:

S.No	Criteria	Rating (Put √ in the appropriate column)					
		Excellent	Very Good	Good	Fair	Satisfactory	
1.	Course Content	10	6	4	3	2	
2.	Coverage of syllabus	18	2	3	2	1	
3.	Interaction	17	3	2	3	1	
4.	Individual Attention	15	4	3	2	1	
5.	Outcome	18	1	2	3	1	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE 2022-23
COURSE NAME: Hands on Programming on MATLAB
COURSE CODE: 22VACECE01

STUDENT FEEDBACK FORM

Code and Name of the Value Added Course	22VACECE01 - Hands on Programming on MATLAB		
Name of the Student	K. Gowthami K. Gowthami		
Year & Semester	22705A0412 22 3 4 4 1 1 1 1 1 1		

Following the completion of course, participants provided feedback form and the detailed list is listed below.

You are required to give your feedback on the following aspects

S.No	Criteria	Rating (Put √ in the appropriate column)					
		Excellent	Very Good	Good	Fair	Satisfactory	
1.	Course Content			✓ .			
2.	Coverage of syllabus						
3.	Interaction						
4.	Individual Attention						
5.	Outcome			/			

K. Gowtham?
Signature of the Student

ThallapakaPanchayath, New Boyanapalli, Rajampet, Annamayya Dist., A.P. – 516126

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE 2022-23
COURSE NAME: Hands on Programming on MATLAB
COURSE CODE: 22VACECE01

STUDENT FEEDBACK FORM

Code and Name of the Value Added Course	22VACECE01 - Hands on Programming on MATLAB		
Name of the Student	G. Keevthi		
Year & Semester	2170120468		

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You are required to give your feedback on the following aspects

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		Excellent	Very Good	Good	Fair	Satisfactory	
1.	Course Content						
2.	Coverage of syllabus						
3.	Interaction						
4.	Individual Attention		/				
5.	Outcome			/			

Signature of the Student



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::RAJAMPET

(An Autonomous Institution)

VALUE ADDED COURSE

CERTIFICATE OF PARTICIPATION

This is to contify that Ma/Ma	
THIS IS TO CEPTITAL INITIALISM.	bearing H.T.Nohas
attended a Value Added Course on	organized by
attended a Value Added Course on department of ECE during	
Head of the Department	Principal



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::RAJAMPET

(An Autonomous Institution

VALUE ADDED COURSE

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. S. Gayathri bearing H.T.No. 20701A0441 has attended a Value Added Course on Hands on Programming on MATLAB organized by department of ECE during 12.09.2022 to 29.09.2022

Head of the Department

1.11/10

Principal



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::RAJAMPET

(An Autonomous Institution)

VALUE ADDED COURSE

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. M. Raghawa bearing H.T.No. 2070 1 A04cq has attended a Value Added Course on Hands on Programming on MATIAR organized by department of ECE during 12.09.2022 to 29.09.2022

Head of the Department

Principal

ThallapakaPanchayath, New Boyanapalli, Rajampet, Annamayya Dist., A.P. - 516126 (Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU Anantapur, Anantapuramu) (Institute Accredited by NAAC, Bangalore) (Institute Accredited by IE(I), Kolkata) Accredited by NBA(CSE,ECE & EEE), Autonomous conferred by UGC, New Delhi under Section 2(f) & 12 (B)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

30-09-2022

COURSE REPORT

Name of the Value added Course: Hands on Programming on MATLAB

Course Code: 22VACECE01 Resource Person: M. Venkata Dasu Course Coordinator: S.Karimullah

Date: 12-9-22 TO 29-9-22

Course Type: Self Framed Course (Theory)

The certificate program Hands on Programming on MATLAB was conducted for II B.Tech I Sem

students. The total contact hours 32 have been planned and executed as per the course plan.

Assessment Mode

Number of Students enrolled: 25 Number of Students appeared: 25

Date of Exam: 29-09-2022

Type of assessment: Multiple Choice Questions Scheme of Exam: Multiple Choice Questions

Number of students passed: 25



Hands on Programming on MATLAB

THE DEPARTMENT

Head of the Department