

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

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL
INDRA GANESAN COLLEGE OF ENGINEERING





DEPARTMENT OF SCIENCE AND HUMANITIES

ACADEMIC YEAR 2022-2023 / ODD SEMESTER

1.2 Academic Flexibility (30)

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

AND

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

VAC Title:	: COURSE ON MATLAB									
Mr.K. Vivek					Mr.Sundar					
Resource Per	rson:	Mana	iging Dir	ector,			Team Leader,			
		Azate	Azatech Pvt Ltd, Chennai.				Azatech Pvt Ltd, Chennai.			
Date of conduct from: 12.12.2022)22	To:	12.12.202	2	Duration:	30 Hours		
Organized D	zed Department: SCIENCE AND HUMANITIES									
Participant Year: I Year Semest			er:	ODD	No. of St	udents Regi	stered:	158		
Venue: Al	Venue: AUDITORIUM									

Table of Content

S. No	Document	Page No
1.	VAC Circular	3-3
2.	VAC Schedule	4-4
3.	List of the Students Participation	5-9
4.	VAC Report	10-10
5.	VAC Test Paper	11-20
6.	VAC Answer Key	21-21
7.	Attendance Of Students	22-28
8.	VAC Mark Statement	29-36
9.	Course Completion Certificates	37-39
10.	VAC Test Answer Sheet- Sample	40-49





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Department of Science and Humanities Academic Year 2022-2023 -Odd Semester

08.12,2022

DEPARTMENT CIRCULAR

Department of Science and Humanities and IQAC of IGCE in association with Azatech Pvt Ltd going to organize Value Added Course for all first year students on "Course on Matlab" from 12.12.2022 to 16.12.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1. Mr.K.Vivek
	Managing Director,
	Azatech Pvt Ltd, Chennai
Resource Person Detail	
	2. Mr.N.Sundar
	Team Leader,
	Azatech Pvt Ltd, Chennai
Venue	Auditorium, IGCE

Cc:

- Principal office
- IQAC Co-Ordinator
- HoD/S&H
- Class In charges I-Year
- I-Year S&H Students
- Office File
- Notice Board

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



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Value Added Course

"Course on Matlab"

SYLLABUS

S.NO	TOTAL COVERED	DURATION (in hours)	DATE
1	Introduction to MATLAB	3	12.12.2022
2	Creating Variables	3	12,12,2022
3	MATLAB Functions	3	13.12.2022
4	Introduction to Arrays	3	13.12.2022
5	Array Functions	3	14.12.2022
6	Graphics with MATLAB	3	14.12.2022
7	Input and Output Statements	3	15.12.2022
8	Conditional Statements	3	15.12.2022
9	Programming with MATLAB	3	16.12.2022
10	Mathematical Computing with MATLAB	3	16.12.2022
11	Exam	1	16.12.2022
	Total Hours (Excluding exam)	30	

T. Kalairani

VAC Coordinator

S. Bobela HoD/S&H

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Value added course

STUDENTS PARTICIPATION LIST

"Course on Matlab"

S.NO	REGISTER NUMBER	NAME	YEAR/ BRANCE
1	811222104001	ARJUN RAJAN E	1/ CSE
2	811222104002	BALAMURUGAN M	I/ CSE
3	811222104003	BANUSREE K	I/ CSE
4	811222104004	BHARANITHARAN D	I/ CSE
5	811222104005	DEEBA ANJALIN J	I/ CSE
6	811222104006	DEVIBALAN S	1/ CSE
7	811222104007	DHARUN U	I/ CSE
8	811222104008	DINESH BABU J	I/ CSE
9	811222104009	DIVYASREE G	I/ CSE
10	811222104010	FAIZAL AHAMED J	I/ CSE
11	811222104011	FAZLUDEEN M	I/ CSE
12	811222104012	GAYATHRI R	I/ CSE
13	811222104013	GOKULAN S	I/ CSE
14	811222104014	GOWSALYA S	I/ CSE
15	811222104015	GURUPRAKASH N V	I/ CSE
16	811222104016	HAJIRA BANU K	I/ CSE
17	811222104017	HARISH V	I/ CSE
18	811222104018	JAI SURYA D	I/ CSE
19	811222104019	JAYAPAKIYAM B	I/ CSE
20	811222104020	KALARANI K	I/ CSE
21	811222104021	KALPANA S	I/ CSE
22	811222104022	KARTHICK SUNDARAM S	I/ CSE
23	811222104023	KIRUTHIGA G	I/ CSE
24	811222104024	KRISHNA K	I/ CSE
25	811222104025	MAHALAKSHMI M	I/ CSE
26	811222104026	MALINI M	I/ CSE
27	811222104027	MATHIYARASAN P	I/ CSE
28	811222104028	MAVITHRA K	I/ CSE
29	811222104029	MEIYANAMOORTHY K	- Allemanne
0	811222104030	MOHAMED SAFEEULLAH S	I/ CSE
1	811222104031	PAVITHRA G	I/ CSE I/ CSE

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32	811222104032	DDTVANTEAD	Davies .
33	811222104032	PRIYANKA P	I/CSE
34	811222104033	RAJA GANESH B	I/CSE
35	2017-00	RAJESH B	I/CSE
36	811222104035	RIZWANA PARVEEN A	I/CSE
	811222104036	SAKTHIVEL R	I/CSE
37	811222104037	SANDHIYA S	·I/CSE
38	811222104038	SANJAY D	I/CSE
39	811222104039	SANTHIYA P	I/CSE
$-\frac{40}{11}$	811222104041	SARAN KUMAR J	I/CSE
41	811222104042	SATHISHKUMAR S	I/CSE
42	811222104043	SHARMILA DEVI S	I/CSE
43	811222104044	SHARON ESTHER JESSICA C	I/CSE
44	811222104045	SUBBULAKSHMI C	I/CSE
45	811222104046	SUGANYA S	I/CSE
46	811222104047	SUSMITHA V	I/CSE
47	811222104048	VALARMATHI P	I/CSE
48	811222104049	VARRSA TANUSYA S	I/CSE
49	811222104050	VASUNDHARAN R	I/CSE
50	811222104051	VIGNESH V	I/CSE
51	811222104052	VIJAYALAKSHMI G	I/CSE
52	811222114001	BHARATHIKANNAN A	I/MECH
53	811222114002	NITHIYAKUMAR V	I/MECH
54	811222114003	PRAKASHRAJ R	I/MECH
55	811222114003	PRAKASHRAJ R	I/MECH
56	811222114004	RAMACHANDRAN S	I/MECH
57	811222114005	RANJITH R	I/MECH
58	811222105001	JAGADEESHKUMAR S	I/EEE
59	811222105002	KIRTHICK RAJ D	I/EEE
60	811222105004	RAMESH P	I/EEE
61	811222105005	RAMESH S	I/EEE
62	811222105006	VIGNESH G	I/EEE
63	811222205001	AAFRIN BANU A	
64	811222205002	AARTHI M	I/IT
65	811222205003	AASHIK RAHUMAN N	I/IT
66	811222205004	ABINAYA A	I/IT
67	811222205005	ABINESH S	1/IT
68	811222205006		I/IT
69		ABIRAMI V	I/IT
70	811222205007	ADHARSH K	I/IT
	811222205008	AKASH S	I/IT
71	811222205009	ALLWIN Y	I/IT

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72	811222205011	ARAVIND S	I/IT
73	811222205012	BHARATHAN B	I/IT
74	811222205013	BHARATHI P	I/IT
75	811222205014	BRUNDHA P	I/IT
76	811222205016	DEEPASHRI S	I/IT
77	811222205017	DEIVASUNDARI S	1/IT
78	811222205019	DHANUSH RAAM M	I/IT
79	811222205020	DHIVYAA K	I/IT
80	811222205021	GOPIKA K	I/IT
81	811222205022	HARI M	I/IT
82	811222205023	HARINI T	I/IT
83	811222205025	JASMINE R	I/IT
84	811222205026	JEEVA S	I/IT
85	811222205027	KANCHANA K	I/IT
86	811222205028	KAVIYA M	I/IT
87	811222205029	KISHORE KUMAR S	1/17
88	811222205030	KRISHNA KUMAR S (18/11/04)	I/IT
89	811222205031	KRISHNA KUMAR S (07/09/04)	I/IT
90	811222205032	MOHAMED HARISH A	I/IT
91	811222205033	MURALIDHARAN A	I/IT
92	811222205034	MURALI KARTHIK T	I/IT
93	811222205035	NAVEEN T	I/IT
94	811222205036	NAVEEN V	I/IT
95	811222205037	NEHA K	I/IT
96	811222205038	NITHISH KUMAR R	I/IT
97	811222205040	PRAKASH B	I/IT
98	811222205041	PRIYADHARSHINI A	I/IT
99	811222205042	RAJATHALAPATHI P	I/IT
100	811222205043	ROSHMA	I/IT
101	811222205044	SABEER MOHAMED S	I/IT
102	811222205045	SANCHANA N	I/IT
103	811222205046	SANGEETHA R	·I/IT
104	811222205047	SANJAY M S	I/IT
105	811222205048	SARATHA C	I/IT
106	811222205049	SHIBANA PARVEEN	1/IT
107	811222205050	SRILEGHA S	I/IT
108	811222205051	SURYA K	1/IT
109	811222205052	SWATHISH S	LIT
110	811222205054	VASANTHA KUMAR S	I/IT
111	811222205055	VIGNESHKUMAR M	I/IT

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113	811222205056	VISHNU SREE S	
113	811222205057	YASAR ARABATH K	VIT
114	811222205058	YOGAPRIYA S	VII
115	811222205059	YUGA NITHI S	VIT
116	811222243001	ABINAYA B	I/AI&DS
117	811222243002	ABINAYA N	I/AI&DS
118	811222243003	ABISHAKE K	I/AI&DS
119	811222243004	AKASH G	I/AI&DS
120	811222243005	AMALRAJ A	I/AI&DS
121	811222243006	ATCHAYA R	I/AI&DS
122	811222243007	BALA SUBHIKSHA B	I/AI&DS
123	811222243008	DHARAANISHAN S	I/AI&DS
124	811222243009	DHIVIYASRI S	VAI&DS
125	811222243010	DURGADEVI E	I/Al&DS
126	811222243011	GOKULAKRISHNAN S	I/AI&DS
127	811222243012	GOVINDHASAMY K	VAI&DS
128	811222243013	GUNASEKARAN S	I/AI&DS
129	811222243014	HARIHARAN G	I/AI&DS
130	811222243015	HARI PRASASTH S	I/AI&DS
131	811222243016	HARIPRIYAN P	I/AI&DS
132	811222243017	IRFAN BASITH J	I/AI&DS
133	811222243018	KARTHIKEYAN M	J/AI&DS
134	811222243019	KAVIYA M	VAI&DS
135	811222243020	KIRUSOKUMAR A	I/AI&DS
136	811222243021	LAVANYA SHREE L	I/AI&DS
137	811222243022	MALATHI S	I/AI&DS
138	811222243023	NANTHAKUMAR M	I/AI&DS
139	811222243024	PRAKASH V	I/AI&DS
140	811222243025	PURAVIRAJ P	I/AI&DS
141	811222243026	RUBAVATHI G	I/AI&DS
142	811222243027	SAKTHIVEL A	I/AI&DS
143	811222243028	SAMS WINSON A	I/AI&DS
44	811222243029	SARAVANAN P	
45	811222243030	SATHISH S	I/AI&DS
46	811222243031	SENTHAMIZHSELVAN S	I/AI&DS
47	811222243032	SHALINI N	I/AI&DS
48	811222243033	SHALINI S	I/AI&DS
49	811222243034	SUBIKSHA G	I/AI&DS
50	811222243035	THACHINAMOORTHY K	I/AI&DS
51	811222243036	THENMOZHI K	VAI&DS
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152	811222243037	VAISHNAVI S	I/AI&DS
153	811222243038	VIJI G	I/AI&DS
154	811222243039	VISHALINI V	I/AI&DS
155	811222225001	ABINAYA C	I/AGRI
156	811222225002	ABISHEK C	I/AGRI
157	811222225003	AJITH V	I/AGRI
158	811222225004	AMARNATH P	I/AGRI

T. Kalairan

VAC Coordinator

S. Bookster

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Principal



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Title:	"Val	ue ad	ded course on M	t on Val <mark>Iatlab"</mark>	wp rzuu	en Com	rse	
Resourc	e Person:		Mr.K.Vivek Managing Dir Azatech Pvt Lt		nai	Te	r.Sundar am Leader, atech Pvt Ltd,	Chennai
Date of c	onduct fr	om:	12.12.2022	To:	16.12.	2022	Duration:	30 Hours
Organize	d Departr	nent:	SCIENCE AN	D HUM	ANITO	ES		- Tables
Participant Year: 1				1	No. of Students Registered:		158	
. Break a		task u two N	p into smaller, sii Iodules) alyse		ks		- a osy secution	uo can avie to
				n 70% (n tota	score		nore than 75% in VAC out of
100 mar	ks)							

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Name of the Student:

Year/Sem:

AU Register Number:

Value Added Course

"Course on Matlab"

MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)

- 1. MATLAB stands for?
- a) matrix laboratory
- b) math library
- c) matric library
- d) matrix library
- 2. Which command is used to clear a command window?
- a) clear
- b) close all
- c) clc
- d) clear all
- 3. To determine whether an input is MATLAB keyword, command is?
- a) is keyword
- b) key word
- c) input word
- d) isvarname
- 4. Command used to display the value of variable x.
- a) displayx
- b) disp(x)
- c) disp x
- d) vardisp('x')

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5. Which of the following statements shows the result of executing the following line in the editor window?

size = [13]' size(size)

- a) error
- b) 13
- c) 3 1
- d) 3 3

6. Executing in the command window the following code returns.

a = [1:3]' size(a)

- a) error message
- b) 13
- c) 3 1
- d) 31

7. Command is used to save command window text to file.

- a) saveas
- b) texttofile
- c) diary
- d) todiary

8. Executing in the editor window the following code returns.

a = 1; $\sin(a)$ a = 2;

- a) 0.4815
- b) 0.8415
- c) 1
- d) 0.9093

9. To stop the execution of a MATLAB command, used keys?

- a) ctrl+c
- b) ctrl+s
- c) ctrl+b
- d) ctrl+enter

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10. Which is the invalid variable name in MATLAB?

- a) x6
- b) last
- c) 6x
- d) z

11. What would be the output of the following code (in editor window)?

- A = [01; 10]
- B=2

,

C = A + B

- a)
 - 1 2
- 4 5
- b)
 - 2 3
 - 3 2
- c)
 - 3 2
 - 3 2
- d)
 - 3 2
 - 2 3

12. What would be the output of the following code (in editor window)?

- A = [102];
- b = [307];
- c=a.*b;

- a) [2 0 21]
- b) [3 0 14]
- c) [14 0 3]
- d) [7 0 3]

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a=1:5

 $c=a.^2$

- a) [1 25]
- b) [12345]
- c) [25 16 9 4 1]
- d) [1 4 9 16 25]

14. What would be the output of the following code (in editor window)?

A = [1]

;2

0 :3

;4]

B = [1]C=A*B

a) 0

- b) [1 0 0 0]
- c) 3
- d) [1200]

15. What would be the output of the following code (in editor window)?

$$A = [1 2; C = A^2]$$

3

- a) [7 10; 15 22]
- b) [1 4; 9 16]
- c) [169; 41]
- d) [22 15; 10 7]

16. What would be the output of the following code (in editor window)?

A=1:5;

B=cumprod(A)

- a) b=[1 2 6 24 120]
- b) b=[12345]
- c) b=[54321]
- d) b=[120 24 6 2 1]

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17. Create an array of logical values.

A = [true false true; true true false]

A = 101

110

 $B = \operatorname{cumprod}(A,2)$

18. Find the cumulative product of the rows of A.

a)

 $\mathbf{B} = 1$ 0

> 0 1

b)

B = 1

1 1

c)

B = 1

1 1 1

d)

 $B = 1 \quad 1 \quad 0$

1 1 0

A = 147

258

369

B = cumsum(A)

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a)





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- $B = 1 \ 4 \ 7$
 - 3 8 15
 - 6 15 24
- b)
- $B = 1 \ 4 \ 7$
 - 4 9 15
 - 4 15 24
- c)
- $B = 1 \ 4 \ 7$
 - 3 9 15
 - 6 15 29
- d)
- $B = 1 \ 4 \ 7$
 - 3 9 15
 - 6 15 24

19. Create a 4-by-2-by-3 array of ones and compute the sum along the third dimension.

A = ones(4,2,3);

S = sum(A,3)

a)

S=3 3

3 3

3 3

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3 3

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O	IJ

- S = 3
 - 3 4
 - 3 4
 - 3 4
- c)
- S=2 3
 - 2 3
 - 2 3
 - 2 3
- d)
- S = 7 3
 - 5 3
 - 6 3
 - 3 3

20. Round each value in a duration array to the nearest number of seconds greater than or equal to that value.

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a)

Y1 = 08:29:02.00 08:30:02.00 08:31:02.00

 $Y2 = 09:00:00.00 \quad 09:00:00.00 \quad 09:00:00.00$

b)

 $Y1 = 08:29:02.00 \quad 08:30:02.00 \quad 08:31:02.00$

 $Y2 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$

c)

 $Y1 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$

 $Y2 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$

d)

Y1 = 008:29:01.23 08:30:01.23 08:31:01.23

 $Y2 = 09:00:00.00 \quad 09:00:00.00 \quad 09:00:00.00$

21. What would be the output of the following code (in editor window)?

X = [1.4+2.3i3.1-2.2i -5.3+10.9i]

X = 1,4000 + 2.3000i3.1000 - 2.2000i -5.3000+10.9000i

Y = fix(X)

a) Y = 1.0000 + 2.0000i 3.0000 - 4.0000i - 5.0000 + 10.0000i

b) Y = 2.0000 + 3.0000i 3.1000 - 2.2000i - 5.3000 + 10.9000i

c) $Y = 1.0000 + 2.0000i \cdot 3.0000 - 2.0000i \cdot 5.0000 + 10.0000i$

d) $Y = 2.0000 + 3.0000i \ 3.1000 - 2.2000i \ -5.3000 + 10.9000i$

22. Compute 24 modulo 5.

b = mod(24,5)

a) b = 3

b) b = 4

c) b = 5

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Principal

Indra Ganesan College of Engineering

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IG Valley, Trichy-620 012.

Manikandam, Trichy-620 012.





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d) b = 6

23. What would be the output of the following code (in editor window)?

X = [123;456;789];

Y = [987;654;321];

R = rem(X,Y)

a)

R = 1 2 1

4 0 9

1 0 0

b)

R=1 2 3

3 0 2

1 0 0

c)

R=1 2 3

4 1 2

1 1 0

d)

R=1 2 3

4 0 2

1 0 0

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24.	. If one	operano	l is a scalar	and the	other is n	ot, then N	AATLAB applic	es the scalar to	every
ele	ment o	f the oth	er operand	. This p	roperty is	known as	***************************************		

- a) operand divergence
- b) scalar expansion
- c) vector expansion
- d) dimension declaration
- 25. What happens if we don't assign a variable to an expression which evaluates a numerical value?
- a) MATLAB shows error
- b) Nothing happens
- c) The evaluated values are assigned to a variable automatically
- d) Depends on the numerical value

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Principal
Principal
Indra Ganesan College of Engineering
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ANSWER KEY

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

T. Kalaivan

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

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VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

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5	811222104005	BHARANITHARAN D	I/ CSE	27	82	18	72	81
6	811222104006	DEEBA ANJALIN J	I/ CSE	26	79	17	68	75
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11		FAZLUDEEN M	I/ CSE	30	91	18		84
	Manago valengana	TATAL TAT	I/ CSE	27	82	17	72 68	81

Dr. G. Balakrishnan, M.E., Ph.D.,





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12	811222104012	GAYATHRI R	1900					THE RESERVE TO SERVE THE PARTY OF THE PARTY
13	811222104013	GOKULAN S	1/ CSE	26	79	18	Sin or	to and the same of
14	811222104014	GOWSALYA S	I/ CSE	26	79	Water-property	72	75
15	811222104015		I/ CSE	27	82	18	72	75
16	811222104016		I/ CSE	28	85	21	84	83
17	811222104017		I/ CSE	29	88	19	76	80
18	811222104018		I/ CSE	30	91	20	80	84
19	811222104019	- CRIMD	I/ CSE	27	82	18	72	81
20	811222104020	THE PART I MINT D	I/ CSE	26	79	17	68	75
21	811222104021	THE THAT IN	I/ CSE	26	79	18	72	75
22	811222104022	THE PARTY OF	I/ CSE	26	-	18	72	75
23	811222104023	KARTHICK SUNDARAM S	I/ CSE	26	79	18	72	75
24	811222104024	KIRUTHIGA G	I/ CSE	27	79	18	72	75
25	811222104025	KRISHNA K	I/ CSE	28	82	21	84	83
26	811222104026	MAHALAKSHMI M	I/ CSE	29	85	19	76	80
	811222104027	MALINI M	I/ CSE	30	88	20	80	84
	811222104027	MATHIYARASAN P	I/ CSE	27	91	18	72	
-	011000	MAVITHRA K	I/ CSE	Mile application of the same	82	17	68	81
Manage .	811222104029	MEIYANAMOORTHY K	I/ CSE	26	79	18	72	75
_	811222104030 811222104031	MOHAMED SAFEEULLAH S	I/ CSE	26	79	18	72	75
-	011022104031	PAVITHRA G	I/ CSE	<u>26</u> 26	79	18	72	75
	011000000	PRIYANKA P	I/CSE	The Address of the Age	79	18	72	75
-		RAJA GANESH B	I/CSE	27	82	21	84	75
74	811222104034	RAJESH B	I/CSE	26	79	18	72	83
			1/CSE	26	79	18	72	75 75

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35	811222104035	RIZWANA PARVEEN A	1/000	-sheepface systems (00,000)	the production of the second			
36	811222104036		I/CSE	27	82	21	84	82
37	811222104037	SANDHIYA S	I/CSE	28	85	19	76	83
38	811222104038		I/CSE	29	88	20	80	80
39	811222104039	SANTHIYA P	I/CSE	30	91	18	72	84
10	811222104041	SARAN KUMAR J	I/CSE	27	82	17	68	81
1	811222104042	The state of the s	I/CSE	26	79	18		75
2	811222104043	SATHISHKUMAR S	I/CSE	26	79		72	75
3		SHARMILA DEVI S	I/CSE	26	79	18	72	75
4	811222104044	SHARON ESTHER JESSICA C	I/CSE	26	79	18	72	75
-	811222104045	SUBBULAKSHMI C	I/CSE	27		18	72	75
5	811222104046	SUGANYA S	I/CSE	28	82	21	84	83
6	811222104047	SUSMITHA V	I/CSE	And the second s	85	19	76	80
7	811222104048	VALARMATHI P	I/CSE	29	88	20	80	84
8	811222104049	VARRSA TANUSYA S	-	30	91	18	72	
9	811222104050	VASUNDHARAN R	I/CSE	27	82	17	68	81
0	811222104051	VIGNESH V	I/CSE	26	79	18	72	75
1	811222104052	VIJAYALAKSHMI G	I/CSE	26	79	18	72	75
2	811222114001	BHARATHIKANNAN A	I/CSE	26	79	18	72	75
3	011000	NITHIYAKUMAR V	I/MECH	26	79	18	72	75
	011000	160 an arrange administration of the Control of the	I/MECH	27	82	21		75
ī	011000	PRAKASHRAJ R	I/MECH	28	85	**	84	83
· · · · · · · · · · · · · · · · · · ·	Distance	PRAKASHRAJ R	I/MECH	29	88	19	76	80
,		RAMACHANDRAN S	I/MECH	30	91	20	80	84
	811222114005	RANJITH R	I/MECH	White proper the bearing the second		18	72	81
		Dr. G. Balakri	shnan, M.E	Ph.D.,	82	17	68	75

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58	811222105001	JAGADEESHKUMAR S	The state of the s	***************************************				
59	811222105002	KIRTHICK RAJ D	I/EEE	26	79	18	700	To a politica processor and the lands of the
60	811222105004		1/EEE	26	79	Firm and the court of the court	72	75
61	811222105005		I/ÉEE	26	79	18	72	75
62	811222105006		1/EEE	26	79	18	72	75
63	811222205001	AAFRIN BANU A	1/EEE	27	82	18	72	75
64	811222205002	AARTHI M	I/IT	28	85	21	84	83
65	811222205003		I/IT	29	88	19	76	80
56	811222205004	AASHIK RAHUMAN N	I/IT	30	91	20	80	84
57	811222205005		I/IT	28	85	18	72	81
58	811222205006	ABINESH S	1/IT	29	***************************************	19	76	80
9	811222205007	THE PARTY OF THE P	I/IT	30	88	20	80	84
0	811222205008	ADHARSH K	I/IT	27	91	18	72	81
1	811222205009	AKASH S	I/IT	26	82	17	68	75
2	0110000	ALLWIN Y	I/IT	26	79	18	72	75
3	0110000	ARAVIND S	I/IT	27	79	18	72	75
-		BHARATHAN B	I/IT	Maryana Salara, whomewood distances	82	21	84	83
-	0110000	BHARATHI P	I/IT	28	85	19	76	*****
-	0110000	BRUNDHA P	I/IT	29	88	18	72	80
	811222205016	DEEPASHRI S	I/IT	29	88	18	72	80
	811222205017	DEIVASUNDARI S		27	82	17	68	80
	811222205019	DHANUSH RAAM M	I/IT	28	85	19	76	75
		DHIVYAA K	I/IT	27	82	17		80
	01100-	GOPIKA K	I/IT.	30	91	18	68	75
	P-(45 pp	The same of the sa	J/IT	28	85	19	72 76	81

Dr. G. Balakrishnan, M.E., Ph.D.,



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81	811222205022	HARIM	And were series of the series	et is a successful to the succ				
82	811222205023		I/IT	29	88	20		
83	811222205025	JASMINE R	I/IT	30	91		80	84
84	811222205026	120 14	I/IT	27	82	18	72	81
85	811222205027	1110	I/IT	26	79	17	68	75
86	811222205028	- CLAN III VA	I/IT	26	79	18	72	75
87	811222205029		I/IT	27	82	18	72	75
88	811222205030	TOMAK S	I/IT	28	85	21	84	83
89	811222205031	THE TAXABLE TAXABLE TO A STREET TO A STREE	I/IT	29	88	19	76	80
90	811222205032	KRISHNA KUMAR S (07/09/04) MOHAMED HARISH A	I/IT	29	88	18	72	80
91	811222205033	MURALIDHARAN A	I/IT	27	82	18	72	80
92	811222205034	MIDALLE ADDRESS	I/IT	30	91	17	68	75
93	811222205035	MURALI KARTHIK T	I/IT	28	85	18	72	81
94	811222205036	NAVEEN T	I/IT	29	**************************************	19	76	80
95	811222205037	NAVEEN V	I/IT	30	88	20	80	84
96	811222205038	NEHA K	I/IT	27	91	18	72	81
97	01100-	NITHISH KUMAR R	I/IT	26	82	17	68	75
98		PRAKASH B	I/IT	,978min Grandomest-	79	18	72	
99		PRIYADHARSHINI A	I/IT	26	79	18	72	75
	811222205042	RAJATHALAPATHI P	I/IT	27	82	21	84	75
00	811222205043	ROSHMA	I/IT	28	85	19	76	83
01	811222205044	SABEER MOUANCED C		29	88	18	72	80
02	811222205045	SANCHANAN	I/IT	29	88	18	72	80
03	0140000	SANGEETHA D	I/IT	29	88	18	Charles and delivery over 100 bills and 100	80
		THE INTERIOR	I/IT	27	82	17	72	80
		Dr G Ralaleriet non 167		manufacture of the same of the	-	1/	68	75

Dr. G. Balakrishnan, M.E., Ph.D.,



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104	811222205047	SANJAY M S	V /V /2	Ship Street Without Married No.	Witness Williams			
105	811222205048	SARATHA C	I/IT	30	91	18	72	0.1
106	811222205049	SHIBANA PARVEEN	VIT	28	85	19	76	81
107	811222205050	SRILEGHA S	VIT	29	88	20	80	80
108	811222205051	SURYA K	VIT	30	91	18	72	84
109	811222205052	SWATHISH S	I/IT	27	82	17	68	81
110	811222205054	VASANTHA KUMAR S	VIT	26	79	18	72	75
111	811222205055		I/IT	26	79	18		75
112	811222205056	VIGNESHKUMAR M	VIT	27	82	21	72	75
113	811222205057	VISHNU SREE S	I/IT	28	85	19	84	83
114	811222205058	YASAR ARABATHK	VIT	29	88	- State of the sta	76	80
115	811222205059	YOGAPRIYA S	VIT	29	88	18	72	80
116	811222243001	YUGA NITHI S	I/IT	28	85	18	72	80
117	811222243002	ABINAYA B	I/AI&DS	29	88	19	76	80
118	011000	ABINAYA N	I/AI&DS	27	82	18	72	80
119	01100-	ABISHAKE K	I/AI&DS	30	91	17	68	75
120	011000	AKASH G	I/AI&DS	28	85	18	72	81
121	0.0.0.0	AMALRAJ A	I/AI&DS	29		19	76	80
122	De contra	ATCHAYA R	I/AI&DS	30	88	20	80	84
4 ce	811222243007	BALA SUBHIKSHA B	I/AI&DS	27	91	18	72	81
123	811222243008	DHARAANISHAN S	I/AI&DS		82	17	68	75
124	811222243009	DHIVIYASRI S	I/AI&DS	26	79	18	72	75
125	811222243010	DURGADEVI E	I/AI&DS	26	79	18	72	75
126		GOKULAKRISHNAN S		27	82	21	84	83
,		alakrishnan, M.E., Ph.D.,	I/AI&DS	28	85	19	76	80

Principal



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127	811222243012	GOVINDHASAMY K	I/AI&DS	29	88	10	70	Separation of the Assessment Separation of
128	811222243013	GUNASEKARAN S	I/AI&DS	27	82	18	72	80
129	811222243014	HARIHARAN G	I/AI&DS	28	85	21	84	83
130	811222243015	HARI PRASASTH S	I/AI&DS	28	85	18	72	78
131	811222243016	HARIPRIYAN P	I/AI&DS	29	88	19	76	80
132	811222243017	IRFAN BASITH J	I/AI&DS	27	82	18	72	80
133	811222243018	KARTHIKEYAN M	I/AI&DS	30	-	17	68	75
134	811222243019	KAVIYA M	I/AI&DS	28	91	18	72	81
135	811222243020	KIRUSOKUMAR A	I/AI&DS	29	· 85	19	76	80
136	811222243021	LAVANYA SHREE L	I/AI&DS	30	88	20	80	84
137	811222243022	MALATHI S	I/AI&DS		91	18	72	81
138	811222243023	NANTHAKUMAR M	I/AI&DS	27	82	17	68	75
139	811222243024	PRAKASH V	I/AI&DS	26	79	18	72	75
140	811222243025	PURAVIRAJ P	\$1.000 m 11.000m	26	79	18	72	75
141	811222243026	RUBAVATHI G	I/AI&DS	27	82	21	84	83
142	811222243027	SAKTHIVEL A	I/AI&DS	30	91	18	72	81
143	811222243028	SAMS WINSON A	I/AI&DS	27	82	21	84	83
144	811222243029	SARAVANAN P	I/AI&DS	28	85	18	72	78
145	811222243030	SATHISH S	I/AI&DS	28	85	19	76	80
146	811222243031	SENTHAMIZHSELVAN S	I/AI&DS	29	88	18	72	80
147	811222243032	SHALINI N	I/AI&DS	27	82	17	68	75
148	811222243032		I/AI&DS	30	91	18	72	81
149		SHALINI S	I/AI&DS	28	85	19	76	80
147	811222243034	SUBIKSHA G	I/AI&DS	29	88	20	80	84

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150	811222243035	THACHINAMOORTHY K	I/AI&DS	26	79	18	72	PA P
151	811222243036	THENMOZHI K	I/AI&DS	26	79		72	75
152	811222243037	VAISHNAVIS	I/AI&DS	27	82	18		75
153	811222243038	VIJI G	I/AI&DS	30	91	21	84	83
154	811222243039	VISHALINI V	VAI&DS	27		18	72	81
155	811222225001		I/AGRI	MAN SIA SOM SAME (82	21	84	83
156	811222225002	ABISHEK C		28	85	18	72	78
157	811222225003	AJITH V	I/AGRI	28	85	19	76	80
158	811222225004	- Pr 1 Married Colonia Control Colonia Col	J/AGRI	29	88	18	72	80
1.70	011222223004	AMARNATH P	I/AGRI	28	85	18	72.	78

T. Kalarvani

VAC Coordinator

Sockale HoD/S&H

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal



This is to certify that MR. BALAMURUGAN M, I Year, CSE has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from 12th DEC 2022 to 16th DEC 2022 (5days) during the Academic year 2022-2023.

AzatechPvt Ltd Mr.K.Vivek Managing Director.

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indira Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



This is to certify that MR. PRAKASHV, I Year, AI&DS has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC 2022 (5days) during the Academic year 2022-2023.

K. vivele

AzatechPvt Ltd Mr.K.Vivek Managing Director.

Dr. G. Balakrishnan, M.E., Ph.D.,

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



This is to certify that Ms. MAHALAKSHMI M, I Year, CSE has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

K-vivek

AzatechPvt Ltd Mr.K.Vivek Managing Director. (D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012



This is to certify that Ms. PRIYANKA P, I Year, CSE has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from 12th DEC 2022 to 16th DEC 2022 (5days) during the Academic year 2022-2023.

K-Vivek

AzatechPvt Ltd Mr.K.Vivek Managing Director. (D:

Dr. G. Balakrishnan, M.E., Fh.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



This is to certify that MR. MEIYANAMOORTHY K, I Year, IThas successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

AzatechPvt Ltd Mr.K.Vivek Managing Director.

(D:

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



This is to certify that Ms. NEHA V, I Year, IT has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from 12th DEC 2022 to 16th DEC 2022 (5days) during the Academic year 2022-2023.

K. vivek

AzatechPvt Ltd Mr.K.Vivek Managing Director.

(D:

Principal

Process

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



This is to certify that Ms. JASMINE R, I Year, IT has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from 12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

K. vruk

AzatechPvt Ltd Mr.K.Vivek Managing Director.

(D:

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



This is to certify that Ms. ABIRAMI V, I Year, IT has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

AzatechPvt Ltd Mr.K.Vivek Managing Director.

0

Principal

Dr. G. Balakrishnan, M.E.,

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



This is to certify that MR. IRFAN BASITH J, I Year, AI&DS has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

K. iveh

AzatechPvt Ltd Mr.K.Vivek Managing Director.

Principal

Dr. G. Balakrishnan, M.E., Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

IG Valley, Maddra Mankandam, Trichy-620 012.



This is to certify that MR. PURAVI RAJ P, I Year, AI&DS has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

AzatechPvt Ltd Mr.K.Vivek Managing Director. (D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



This is to certify that Ms. SUBIKSHA G, I Year, AI&DS has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

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AzatechPvt Ltd Mr.K.Vivek Managing Director.

()

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



This is to certify that Ms. THENMOZHI K, I Year, AI&DS has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

AzatechPvt Ltd Mr.K.Vivek Managing Director.

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madural Main Road
Manikandam, Trichy-620 012.



This is to certify that Ms. JAYAPAKIYAM, I Year, CSE has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16thDEC2022 (5days) during the Academic year 2022-2023.

AzatechPvt Ltd Mr.K.Vivek Managing Director.

(D:

Dr. G. Balakrishnan, M.B., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



This is to certify that Ms. VIJI P, I Year, AI&DS has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from 12th DEC 2022 to 16th DEC 2022 (5days) during the Academic year 2022-2023.

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AzatechPvt Ltd Mr.K.Vivek Managing Director. (D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



This is to certify that MR. MOHAMED HARISH, I Year, IT has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

K. vivele

AzatechPvt Ltd Mr.K.Vivek Managing Director.

(D:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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This is to certify that MR. THATCHINAMOORTHY K, I Year, AI&DS has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

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AzatechPvt Ltd Mr.K.Vivek Managing Director. (D):

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



This is to certify that MR. BHARATHIKANAN A, I Year, Mech has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from 12th DEC 2022 to 16th DEC 2022 (5days) during the Academic year 2022-2023.

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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



This is to certify that MR. RAJATHALAPATHY P, I Year, IT has successfully completed the Value Added Course on "COURSE ON MATLAB" Organized by Department of Science and Humanities and IQAC of our Institution in Association with Azatech Pvt Ltd from12th DEC 2022 to 16th DEC2022 (5days) during the Academic year 2022-2023.

K-rivele

AzatechPvt Ltd Mr.K.Vivek Managing Director.

Principal

Dr. G. Balakrisi

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.





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Name of the Student:

Rajesh-k

Year/Sem: I /II

AU Register Number:

811221108029

Value Added Course

"Course on Matlab"

MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)



- 1. MATLAB stands for?
- a) matrix laboratory
- b) math library
- (c) matric library
- d) matrix library
- 2. Which command is used to clear a command window?
- a) clear
- b) close all
- c) clc
- d) clear all
- 3. To determine whether an input is MATLAB keyword, command is?
- (a) is keyword
- b) key word
- c) input word
- d) isvarname
- 4. Command used to display the value of variable x.
- a) displayx
- b) disp(x)
- c) disp x
- d) vardisp('x')

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





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5. Which of the following statements shows the result of executing the following line in the editor window?

size = [13]size(size)

- a) error
- b) 13
- c) 3 1
- d) 3 3

6. Executing in the command window the following code returns.

a = [1:3]' size(a)

- a) error message
- b) 13
- c) 3 1
- d) 31

7. Command is used to save command window text to file.

- a) saveas
- b) texttofile
- c) diary
- d) todiary

8. Executing in the editor window the following code returns.

a = 1;

sin(a)

- a) 0.4815
- b) 0.8415
- c) 1

d) 0.9093

9. To stop the execution of a MATLAB command, used keys?

- a) ctrl+c
- b) ctrl+s
- c) ctrl+b
- d) ctrl+enter

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Maduran Main Road

Manikandam, Trichy 620 012.





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10. Which is the invalid variable name in MATLAB?

- a) x6
- b) last
- c) 6x
- d) z

11. What would be the output of the following code (in editor window)?

- A = [01; 10]
- B=2
- C = A + B

- a)
 - 1 2
 - 4 5
- (b)
 - 2 3
 - 3 2
- c)
 - 3 2
 - 3 2
- d)
 - 3 2
 - 2 3

12. What would be the output of the following code (in editor window)?



b = [307];

c=a.*b;

(a)[2 0 21]

b) [3 0 14]

c) [14 0 3]

d) [7 0 3]

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Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



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13. What would be the output of the following code (in editor window)?

a=1:5

$$c=a.^2$$

- a) [1 25]
- b) [1 2 3 4 5]
- c) [25 16 9 4 1]
- d) [1 4 9 16 25]

1

;2

14. What would be the output of the following code (in editor window)?

A = [1

$$\mathbf{B} = [1]$$

C=A*B

- a) 0
- b) [1 0 0 0]
- c) 3
- d)[1 2 0 0]

15. What would be the output of the following code (in editor window)?

(A)=[1

a) [7 10; 15 22]

- b) [1 4; 9 16]
- c) [16 9; 4 1]
- d) [22 15; 10 7]

16. What would be the output of the following code (in editor window)?

A=1:5;

B=cumprod(A)

a) b=[1 2 6 24 120]

b) b=[1 2 3 4 5]

- c) b=[5 4 3 2 1]
- d) b=[120 24 6 2 1]

Dr. G. Balakrishnan, M.E. Ph.D.

Principal

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 912



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17. Create an array of logical values.

A = [true false true; true true false]

A = 101

110

B = cumprod(A,2)

18. Find the cumulative product of the rows of A.

a)

 $B = 1 \quad 0 \quad 0$

0 1 0



 $B = 1 \quad 0 \quad 0$

1 1 0

c)

 $B = 1 \quad 0 \quad 0$

1 1 1

d)

 $B = 1 \quad 1 \quad 0$

1 1 0

A = 147

258

369

B = cumsum(A)

Dr. G. Balakrishnan, M.E., Pil.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.





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- B = 1 4 7
 - 3 8 15
 - 6 15 24
- b)
- B = 1 4 7
 - 4 9 15
 - 4 15 24
- c)
- B = 1 4 7
 - 3 9 15
 - 6 15 29
- d)
- B = 1 4 7
 - 3 9 15
 - 6 15 24

19. Create a 4-by-2-by-3 array of ones and compute the sum along the third dimension.

A = ones(4,2,3);

S = sum(A,3)

a)

S = 3 3

- 3 3
- 3 3

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



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3 3

	b)							
	S = 3	4						
	3	4						
	3	4						
	3	4						
(e)							
,	S=2	3						
	2	3						
	2	3		1				
	2	3		~				
d								
S	= 7	3						
	5	3						
	6	3						

20. Round each value in a duration array to the nearest number of seconds greater than or equal to that value.

3

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Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.







 $Y1 = 08:29:02.00 \quad 08:30:02.00 \quad 08:31:02.00$

 $Y2 = 09:00:00.00 \quad 09:00:00.00 \quad 09:00:00.00$

b)

 $Y1 = 08:29:02.00 \quad 08:30:02.00 \quad 08:31:02.00$

 $Y2 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$

c)

 $Y1 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$

 $Y2 = 08:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$

d)

 $Y1 = 008:29:01.23 \quad 08:30:01.23 \quad 08:31:01.23$

 $Y2 = 09:00:00.00 \quad 09:00:00.00 \quad 09:00:00.00$

21. What would be the output of the following code (in editor window)?

X = [1.4+2.3i3.1-2.2i -5.3+10.9i]

X = 1.4000 + 2.3000i3.1000 - 2.2000i - 5.3000 + 10.9000i

Y = fix(X)

a) $Y = 1.0000 + 2.0000i \ 3.0000 - 4.0000i \ -5.0000 + 10.0000i$

(b) $Y = 2.0000 + 3.0000i \ 3.1000 - 2.2000i \ -5.3000 + 10.9000i$

c) $Y = 1.0000 + 2.0000i \cdot 3.0000 - 2.0000i \cdot -5.0000 + 10.0000i$

d) $Y = 2.0000 + 3.0000i \ 3.1000 - 2.2000i \ -5.3000 + 10.9000i$

22. Compute 24 modulo 5.

b = mod(24,5)

a) b = 3

(b)b = 4

c) b = 5

Dr. G. Balakrishnan, M.E., Ph.D., **Principal**

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.





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d) b = 6

23. What would be the output of the following code (in editor window)?

X = [123;456;789];

Y = [987;654;321];

R = rem(X,Y)

a)

 $R = 1 \quad 2 \quad 1$

4 0 9

1 0 0

b)

 $R = 1 \quad 2 \quad 3$

3 0 2

1 0 0

c)

 $R = 1 \quad 2 \quad 3$

4 1 2

1 1 0

(d)

 $R = 1 \quad 2 \quad 3$

4 0 2

1 0 0

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Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy=620 012.



d) Depends on the numerical value

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24. If one operand is a scalar and the other is not, then MATLAB applies the scalar to every
element of the other operand. This property is known as
a) operand divergence
b) scalar expansion
c) vector expansion
d) dimension declaration
25. What happens if we don't assign a variable to an expression which evaluates a numerical
value?
MATLAB shows error
b) Nothing happens
c) The evaluated values are assigned to a variable automatically

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy=620 012.