



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

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 ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2021-2022 / 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: | LAB VIEW | | | | |
| Resource Person: | Mr.Deepan, Trainer , Galwin Technology Trichy | | | | |
| Date of conduct from: | 01.03.2022 | To: | 05.03.2022 | Duration: | 30 Hours |
| Organized Department: | ELECTRONICS AND COMMUNICATION ENGINEERING | | | | |
| Participant Year: | ECE IV, III, II | Semester: | ODD | No. of Students Registered: | 52 |
| Venue: | DSP Lab | | | | |

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Department of Electronics and Communication Engineering

Academic Year 2021-2022-ODD Semester

23.02.2022

DEPARTMENT CIRCULAR

Department of Electronics and Communication Engineering and IQAC of IGCE in association with Galwin Technology, Trichy, is going to organize Value Added Course for all Second, Third and Final year students on "Lab View" from 01.03.2022 to 05.03.2022. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.


| | |
|------------------------|---|
| Resource Person Detail | Mr. Deepan, Trainer Galwin Technology, Trichy |
| Venue | DSP Lab |


HOD/ECE


PRINCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges - II, III & IV-Year
- II, III & IV-Year ECE Students
- Office File
- Notice Board


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
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Value Added Course

“Lab View”

SYLLABUS

| S.NO | TOPIC COVERED | DURATI ON (in hours) | DATE |
|-------------------------------------|--|----------------------------|------------|
| 1 | Introduction Lab View -Evolution of LabVIEW Lab View add on tool kits | 3 | 01.03.2023 |
| 2 | Lab View Real Time, FPGA, PDA, and Embedded | 3 | 01.03.2023 |
| 3 | Lab View Environment Front panel, control and indicator- Block Diagram, Nodes , Wires, Data Flow Programming | 3 | 02.03.2023 |
| 4 | Lab View Projects, Project Explorer window, project Explorer Toolbars Building Application- Installers- Floating Pallets | 3 | 02.03.2023 |
| 5 | Lab View Foundation - Creating VI- Basic Controls | 3 | 03.03.2023 |
| 6 | Indicators- Boolean's- String- Paths | 3 | 03.03.2023 |
| 7 | Automatic wire routing-Automatic Wiring | 3 | 04.03.2023 |
| 8 | Wiring Tips- adding Constants- Controls and indicators | 3 | 04.03.2023 |
| 9 | Keyboard Shortcuts- Cloning and object | 6 | 05.03.2023 |
| 10 | Exam | 1 | 05.03.2023 |
| Total Hours (Excluding Exam) | | 30 | - |

Balakrishnan
VAC Coordinator

M. J. Prasad
HOD/ECE

G. Balakrishnan
Dr. G. Balakrishnan, M.E., Ph.D.,
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Value Added Course

“Lab View”

STUDENTS PARTICIPATION LIST

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

Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam

Tiruchirappalli - 620 012

| S.NO | REG NO | STUDENTS NAME | YEAR/ BRANCH |
|------|--------------|----------------------|-----------------|
| 1 | 811218106001 | ABINAYA R | IV / ECE |
| 2 | 811218106002 | AKILA K | IV / ECE |
| 3 | 811218106004 | ARTHI M | IV / ECE |
| 4 | 811218106005 | AZHAGU MEENA M | IV / ECE |
| 5 | 811218106006 | DEVI K | IV / ECE |
| 6 | 811218106007 | DHANALAKSHMI S | IV / ECE |
| 7 | 811218106008 | HARI KRISHNAN S | IV / ECE |
| 8 | 811218106009 | JANANI V | IV / ECE |
| 9 | 811218106010 | JENIFER C | IV / ECE |
| 10 | 811218106011 | JENIFER S | IV / ECE |
| 11 | 811218106012 | KESAVAMURTHI M | IV / ECE |
| 12 | 811218106013 | KIRUTHIKA S | IV / ECE |
| 13 | 811218106015 | MARIA FRANCIS D | IV / ECE |
| 14 | 811218106016 | RAGAVI A | IV / ECE |
| 15 | 811218106017 | RUTHRAMOORTHY M | IV / ECE |
| 16 | 811218106018 | SABARINATHAN K | IV / ECE |
| 17 | 811218106019 | SARMILA M | IV / ECE |
| 18 | 811218106020 | SUMATHI S | IV / ECE |
| 19 | 811218106021 | THIVYA PRIYA R | IV / ECE |
| 20 | 811219106001 | DAYANA P | III / ECE |
| 21 | 811219106002 | DEVIKA K | III / ECE |
| 22 | 811219106003 | DINESH J | III / ECE |
| 23 | 811219106004 | MOHANA SUNDARAM K | III / ECE |
| 24 | 811219106005 | RAVIKUMAR B | III / ECE |
| 25 | 811219106006 | SANTHANARAJ A | III / ECE |
| 26 | 811219106007 | SHYAM CR | III / ECE |
| 27 | 811219106008 | SRIKANTH M | III / ECE |
| 28 | 811219106009 | SURENDRAN S | III / ECE |
| 29 | 811219106010 | SURYA V | III / ECE |
| 30 | 811219106011 | SWETHA K | III / ECE |
| 31 | 811219106301 | YUVASHREE S | III / ECE |
| 32 | 811219106701 | VIJAYALAKSHMI V | III / ECE |
| 33 | 811219106702 | PONNARASU S | III / ECE |
| 34 | 811220106006 | BANU PRIYA G | II / ECE |



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| S.NO | REG NO | STUDENTS NAME | YEAR/ BRANCH |
|------|--------------|---------------------|-----------------|
| 35 | 811220106008 | BHARATHIDASAN C | II/ ECE |
| 36 | 811220106018 | J.JANCY | II/ ECE |
| 37 | 811220106019 | JEEVASEN N | II/ ECE |
| 38 | 811220106021 | KAMARAJ.S | II/ ECE |
| 39 | 811220106022 | C.KARTHICK | II/ ECE |
| 40 | 811220106023 | S.KARTHIKA | II/ ECE |
| 41 | 811220106025 | KISHORE R | II/ ECE |
| 42 | 811220106026 | M. KISHORE KUMAR | II/ ECE |
| 43 | 811220106028 | MANCY.E | II/ ECE |
| 44 | 811220106031 | PRADHAP.J | II/ ECE |
| 45 | 811220106032 | PRASANNA.J | II/ ECE |
| 46 | 811220106033 | PREETHIKA.M | II/ ECE |
| 47 | 811220106034 | PREMALATHA.M | II/ ECE |
| 48 | 811220106037 | SHRI HARINI PRIYA B | II/ ECE |
| 49 | 811220106038 | SNEGA M | II/ ECE |
| 50 | 811220106039 | SOBI AMIRTHA N | II/ ECE |
| 51 | 811220106041 | SUNIL KUMAR B | II/ ECE |
| 52 | 811220106042 | SUSILA N | II/ ECE |
| 53 | 811220106049 | YOGA PRIYA.R | II/ ECE |

Bala Krishnan
VAC Coordinator


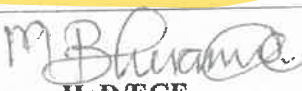

M. Bhuvan
HOD/ECE

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| REPORT ON VALUE ADDED COURSE | | | |
|--|--|--|--------------------|
| Title: | "Lab View" | | |
| Resource Person: | Mr. Deepan, Trainer, Galwin Technology, Trichy | | |
| Date of conduct from : | 01.03.2022 | To: 05.03.2022 | Duration: 30 Hours |
| Organized Department : | Electronics and Communication Engineering | | |
| Participant Year: | 2,3,4 | No. of Students Registered : | 53 |
| Venue: | DSP Lab | | |
| Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to | | | |
| <ul style="list-style-type: none">● create applications using the state machine design pattern● to acquire, analyze, process, visualize, and store real-world data Recognize various tools used for the controller applications● ability to quickly facilitate taking measurements.● use of Lab view software is predominant in the areas where hardware products are built based on embedded programming | | | |
| Assessment Process | | | |
| <ul style="list-style-type: none">● Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted● Total Score = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$ | | | |
|  VAC Coordinator |  HoD/ECE |  Principal | |



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SAMPLE PHOTOS OF VALUE ADDED COURSE

Title: "Lab View"

Resource Person: Mr. Deepan, Trainer, Galwin Technology,
Trichy

Date of conduct from : 01.03.2022 To: 05.03.2022 Duration: 30 Hours

Organized Department : Electronics and Communication Engineering

Participant Year: 2,3,4

No. of Students Registered : 53

Venue: Sample Photos



Balakrishnan
VAC Coordinator

M. Balakrishnan
HoD/ECE

[Signature]
Principal

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

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Value Added Course "Lab View"

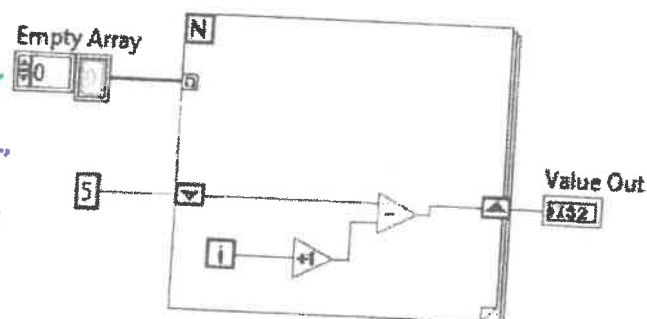
Name of the Student:

AU Register Number:

Year/Sem:

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

- For implementing state diagrams that allow future application scalability, the best choice for a base structure is?
 - Sequence structure
 - Case structure
 - Formula node
 - Object-Oriented structure
- For implementing state diagrams that allow future application scalability, the best choice for a base structure is?
 - Sequence structure
 - Case structure
 - Formula node
 - Object-Oriented structure
- Clicking on the button allows you to bypass a node in the Block Diagram without single- stepping through the node.
 - Step Into
 - Step Over
 - Step Out
 - Step Through
- Which of the following apply to Property Nodes? (More than one answer may apply.)
 - Property Nodes allow attributes of front panel objects to be programmatically manipulated.
 - Property Nodes can be used to update the values contained in a front panel object.
 - More than one Property Node can be used for a single front panel object.
 - Property Nodes can be used to programmatically generate a Value Change event.
- You have a front panel control on a top-level VI that you must control from within a subVI. What must you pass to the subVI?
 - The control's properties
 - The control's methods
 - The control's reference
 - The control's data type
- You set a Breakpoint in the code contained within the False case of a Case structure. Will the VI execution pause if the code in True case of the Case structure is being executed?
 - Yes
 - No
- What value does the Value Out indicator display after the VI executes?



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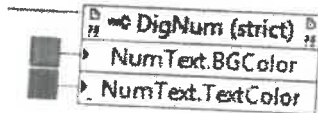
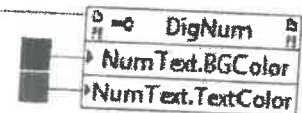
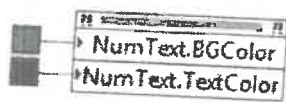
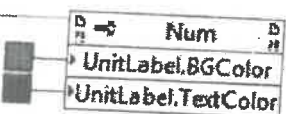
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- a. 0
- b. 4
- c. 5
- d. 6

8.. Which Property Node changes the text color attributes of any digital numeric control from a subVI?

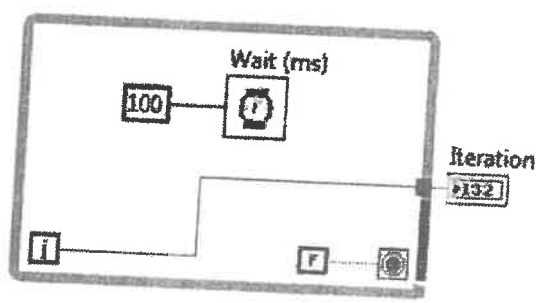
- a. 
- b. 
- c. 
- d. 

9. Which chart update mode should be used to show running data continuously scrolling from left to right across the chart?
 a. Strip Chart b. Scope Chart c. Sweep Chart d. Step Chart

10. Which of the following does not conform to the Dataflow programming paradigm?
 a. Shift Registers b. Tunnels c. SubVIs d. Local variables

11. If possible, a Sequence structure should be replaced with a(n):
 a. Event structure b. For loop c. State machine d. While loop

12. Which of the following statements is TRUE about the following code segment?



(Signature)
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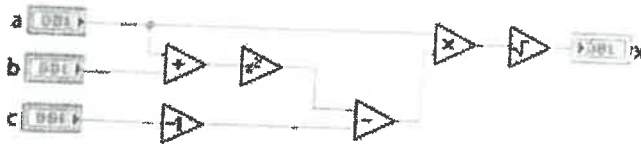


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- The loop will execute once and the indicator Iteration will have a value of one
- The loop will execute once and the indicator Iteration will have a value of zero
- The loop will execute infinitely and the program will have to be aborted
- The loop will not execute and the indicator Iteration will have a value of zero

13..Which equation is equivalent to the code?



- $x = \sqrt{a \times ((a + b)^2 - (c - 1))}$
- $x = \sqrt{a \times ((c - 1) - (a + b)^2)}$
- $x = \sqrt{a \times ((a + b^2) - (c - 1))}$
- $x = \sqrt{a^2 \times ((a + b)^2 - (c - 1))}$

14..A VI has Automatic Error Handling enabled. It calls a SubVI that has Automatic Error Handling disabled. The Error Out terminal of the SubVI is unwired in the calling VI. The SubVI returns an error to the calling VI. Will an error dialog be posted because of Automatic Error Handling?

- No, since the SubVI has Automatic Error Handling disabled
- Yes, since the SubVI has Automatic Error Handling disabled
- No, since the Error Out terminal from the subVI is not wired in the calling VI.
- Yes, since the Error Out terminal from the subVI is not wired in the calling VI.

15. Which of the following statements is FALSE?

- A SubVI connector pane defines where to wire inputs and outputs
- The color of a SubVI connector pane terminal matches the data type it is connected to
- You must have an icon/connector pane to use a SubVI
- A SubVI icon can be edited from the functions palette

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16. Which of the following cannot be used to transfer data?
a. Semaphores b. Queues c. Notifiers d. Local variable

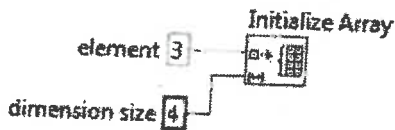
17. The Error list shows all of the following EXCEPT:

- a. Items with errors
b. Errors and warnings
c. Details about the warnings
d. Error Codes

18. Auto-indexing at loop boundary is a feature that allows: (More than one answer may apply.)

- a. Arrays to be automatically traversed from one iteration to the next
b. Array functions to automatically index array elements
c. Functions that use arrays to automatically index them
d. Arrays to be automatically accumulated at loop boundaries

19. What is the output of the Initialize Array function after the following code has executed?



- a. 1-D Array of {3, 3, 3, 3}
b. 1-D Array of {4, 4, 4}
c. 1-D Array of {3, 4}
d. 1-D Array of {4, 3}

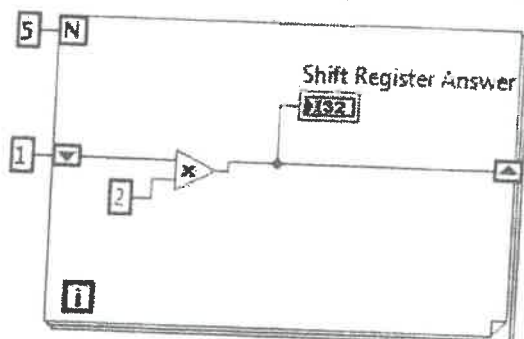
20. Which of the following will cause an event to be captured by the Lab View Event Structure?

- a. Changing a Front Panel control's Value via a mouse click on the control
b. Changing a Front Panel control's Value property via a property node
c. Changing a Front Panel control's Value via a control reference
d. Changing a Front Panel control's Value via a local variable

21. Which variable is commonly used to eliminate race conditions by preventing simultaneous access to code or data?

- a. Functional global variable
b. Local variable
c. Global variable
d. Shared variable

22. What is the value in Shift Register Answer after the following code has executed?



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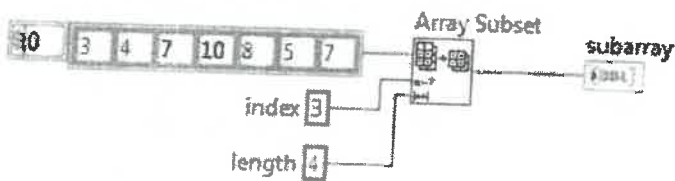


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- a.16 b.24 c.32 d,10

23. What is the result in **subarray** after the following code has executed?








- a. 1-D Array of {8, 5, 7}
b. 1-D Array of {10, 8, 5}
c. 1-D Array of {10, 8, 5, 7}
d. 1-D Array of {7, 10, 8, 5}

24. How do you document a VI so that the description appears in the Show Context Help popup window?

- a. Use the VI Properties Documentation window
b. Type in the Show Context Help window
c. Create a free label on the front panel
d. Edit the Lab View help files

25. Which of the following terminals controls how many times a For loop executes?

- a. 
b. 
c. 
d. 


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Value Added Course

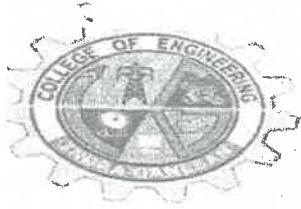
“Lab View”

ANSWER KEY

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

Balaku
VAC Coordinator


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18/25

Value Added Course "Lab View"

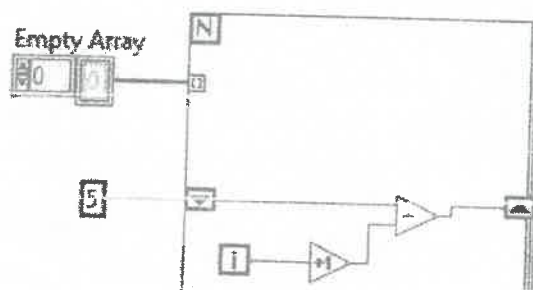
Name of the Student: Devi . K

Year/Sem: IV / VII

AU Register Number: 811218106006

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

- For implementing state diagrams that allow future application scalability, the best choice for a base structure is?
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a. Yes
b. No
- What value does the Value Out indicator display after the VI executes?



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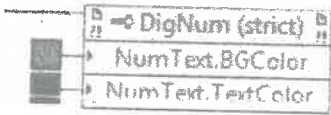
c

- a. 0
- c. 5

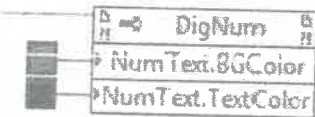
- b. 4
- d. 6

8.. Which Property Node changes the text color attributes of any digital numeric control from a subVI?

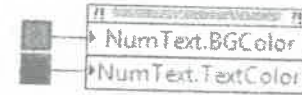
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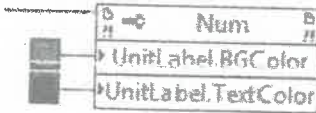
b.



c.



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9. Which chart update mode should be used to show running data continuously scrolling from left to right across the chart?

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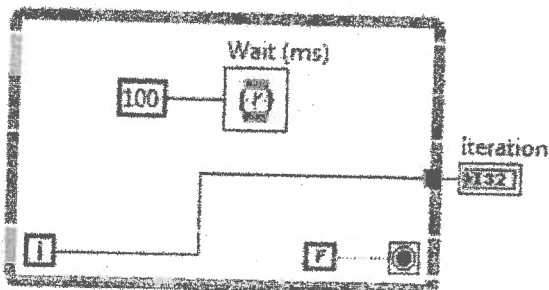
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12. Which of the following statements is TRUE about the following code segment?



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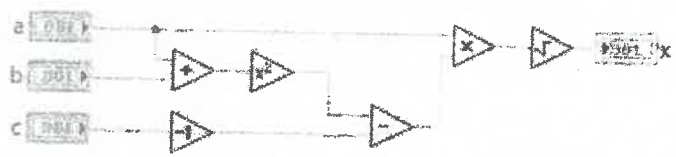


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- a. The loop will execute once and the indicator Iteration will have a value of one
- b. The loop will execute once and the indicator Iteration will have a value of zero
- c. The loop will execute infinitely and the program will have to be aborted
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13..Which equation is equivalent to the code?



- a. $x = \sqrt{a \times ((a + b)^2 - (c - 1))}$
- b. $x = \sqrt{a \times ((c - 1) - (a + b)^2)}$
- c. $x = \sqrt{a \times ((a + b^2) - (c - 1))}$
- d. $x = \sqrt{a^2 \times ((a + b)^2 - (c - 1))}$

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14..A VI has Automatic Error Handling enabled. It calls a SubVI that has Automatic Error Handling disabled. The Error Out terminal of the SubVI is unwired in the calling VI. The SubVI returns an error to the calling VI. Will an error dialog be posted because of Automatic Error Handling?

- a. No, since the SubVI has Automatic Error Handling disabled
- b. Yes, since the SubVI has Automatic Error Handling disabled
- c. No, since the Error Out terminal from the subVI is not wired in the calling VI.
- d. Yes, since the Error Out terminal from the subVI is not wired in the calling VI.

15. Which of the following statements is FALSE?

- a. A SubVI connector pane defines where to wire inputs and outputs
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- c. You must have an icon/connector pane to use a SubVI
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16. Which of the following cannot be used to transfer data?
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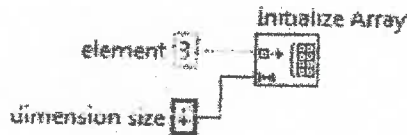
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18. Auto-indexing at loop boundary is a feature that allows: (More than one answer may apply.)

- a. Arrays to be automatically traversed from one iteration to the next
b. Array functions to automatically index array elements
c. Functions that use arrays to automatically index them
d. Arrays to be automatically accumulated at loop boundaries

19. What is the output of the Initialize Array function after the following code has executed?



- a. 1-D Array of {3, 3, 3, 3}
b. 1-D Array of {4, 4, 4}
c. 1-D Array of {3, 4}
 d. 1-D Array of {4, 3}

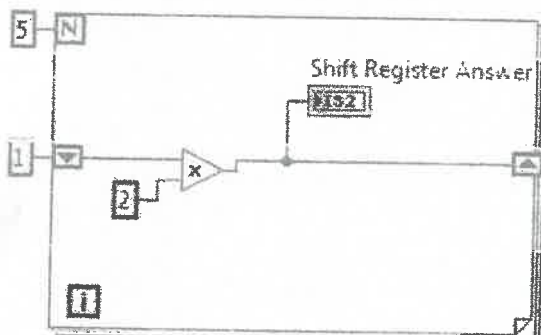
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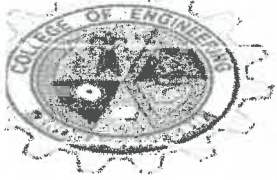
21. Which variable is commonly used to eliminate race conditions by preventing simultaneous access to code or data?

- a. Functional global variable
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22. What is the value in Shift Register Answer after the following code has executed?



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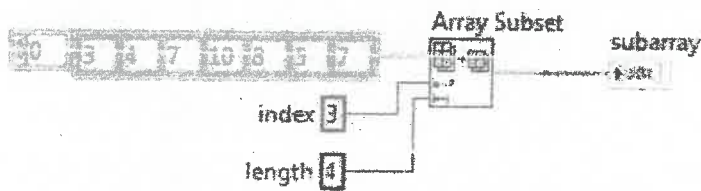


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- a.16 b.24 **c.32** d.10

23. What is the result in **subarray** after the following code has executed?







- a.** 1-D Array of {8, 5, 7}
b. 1-D Array of {10, 8, 5}
c. 1-D Array of {10, 8, 5, 7}
d. 1-D Array of {7, 10, 8, 5}

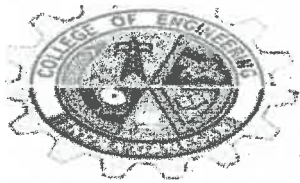
24. How do you document a VI so that the description appears in the Show Context Help popup window?

- a. Use the VI Properties Documentation window
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25. Which of the following terminals controls how many times a For loop executes?

- a.** 
b. 
c. 
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24

25

Value Added Course "Lab View"

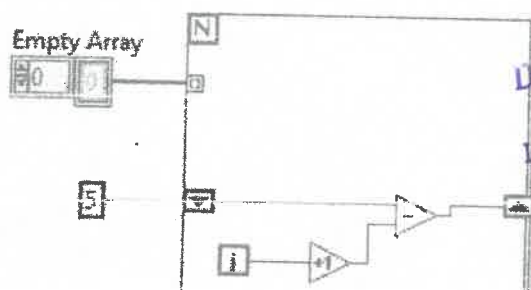
Name of the Student: Abinaya .R.

Year/Sem: IV / VU

AU Register Number: 811218106001

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

- For implementing state diagrams that allow future application scalability, the best choice for a base structure is?
a. Sequence structure
c. Formula node
 b. Case structure
d. Object-Oriented structure
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- Clicking on the button allows you to bypass a node in the Block Diagram without single- stepping through the node.
a. Step Into b. Step Over c. Step Out d. Step Through
- Which of the following apply to Property Nodes? (More than one answer may apply.)
a. Property Nodes allow attributes of front panel objects to be programmatically manipulated.
b. Property Nodes can be used to update the values contained in a front panel object.
 c. More than one Property Node can be used for a single front panel object.
d. Property Nodes can be used to programmatically generate a Value Change event.
- You have a front panel control on a top-level VI that you must control from within a subVI. What must you pass to the subVI?
a. The control's properties
 c. The control's reference
b. The control's methods
d. The control's data type
- You set a Breakpoint in the code contained within the False case of a Case structure. Will the VI execution pause if the code in True case of the Case structure is being executed?
a. Yes
 b. No
- What value does the Value Out indicator display after the VI executes?



(Signature)
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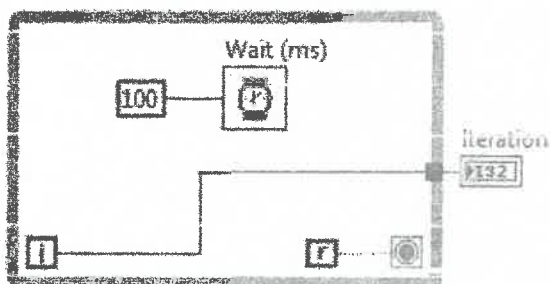
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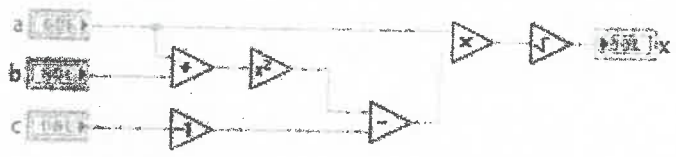


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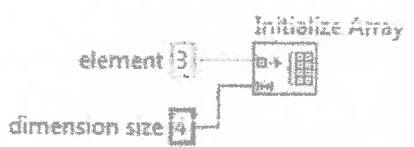
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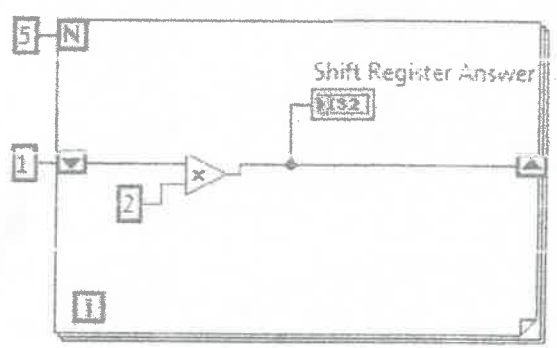
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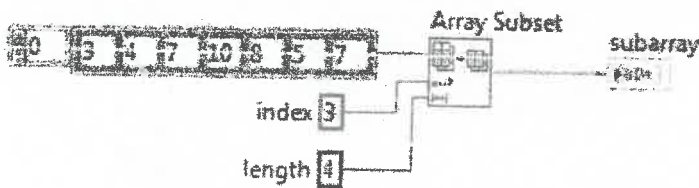


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Department of Electronics and Communication Engineering

Academic Year 2021-2022 – Odd Semester

STUDENTS ATTENDANCE LIST

Value Added Course

“Lab View”

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|------|--------------|-----------------|-----------------|------------|----|------------|----|------------|----|------------|----|------------|----|-----------------------------------|---------------------------|
| | | | | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | | |
| 1 | 811218106001 | ABINAYA R | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Abinayar |
| 2 | 811218106002 | AKILA K | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | K. Akila |
| 3 | 811218106004 | ARTHI M | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | M. Arthi |
| 4 | 811218106005 | AZHAGU MEENA M | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | M. Meena |
| 5 | 811218106006 | DEVI K | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Devi |
| 6 | 811218106007 | DHANALAKSHMI S | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Dhanu |
| 7 | 811218106008 | HARI KRISHNAN S | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | S. Hari |
| 8 | 811218106009 | JANANI V S | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | V. Janani |
| 9 | 811218106010 | JENIFER C | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | C. Jenifer |
| 10 | 811218106011 | JENIFER S | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | S. Jenifer |
| 11 | 811218106012 | KESAVAMURTHI M | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | M. Kesava |
| 12 | 811218106013 | KIRUTHIKA S | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | S. Kiruthika |
| 13 | 811218106015 | MARIA FRANCIS D | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | D. Maria |
| 14 | 811218106016 | RAGAVI A | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | A. Ragavi |



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| | | | | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | | |
| 15 | 811218106017 | RUTHRAMOORTHY M | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | 9 | Ruth |
| 16 | 811218106018 | SABARINATHAN K | IV / ECE | ✓ | ✓ | ✓ | A | ✓ | ✓ | A | ✓ | ✓ | ✓ | 8 | Sabath |
| 17 | 811218106019 | SARMILA M | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | A | ✓ | ✓ | 8 | Sarmila |
| 18 | 811218106020 | SUMATHI S | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | A | ✓ | ✓ | 8 | Sumathi |
| 19 | 811218106021 | THIVYA PRIYA R | IV / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | ✓ | ✓ | 9 | Thivya Priya R |
| 20 | 811219106001 | DAYANA P | III / ECE | A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Dayana P |
| 21 | 811219106002 | DEVIKA K | III / ECE | ✓ | ✓ | A | ✓ | A | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Devika K |
| 22 | 811219106003 | DINESH J | III / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 8 | Dinesh J |
| 23 | 811219106004 | MOHANA SUNDARAM K | III / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | 9 | Mohana Sundaram K |
| 24 | 811219106005 | RAVIKUMAR B | III / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Ravikumar B |
| 25 | 811219106006 | SANTHANARAJ A | III / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Santhana Raj A |
| 26 | 811219106007 | SHYAM CR | III / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Shyam CR |
| 27 | 811219106008 | SRIKANTH M | III / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | ✓ | 10 | Srikanth M |
| 28 | 811219106009 | SURENDRAN S | III / ECE | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Surenthran S |
| 29 | 811219106010 | SURYA V | III / ECE | ✓ | ✓ | ✓ | A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Surya V |
| 30 | 811219106011 | SWETHA K | III / ECE | ✓ | A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Swetha K |
| 31 | 811219106301 | YUVASHREE S | III / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Yuvashree S |
| 32 | 811219106701 | VIJAYALAKSHMI V | III / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Vijaya Lakshmi V |
| 33 | 811219106702 | PONNARASU S | III / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | 9 | Ponnarasu S |
| 34 | 811220106006 | BANU PRIYA G | III / ECE | ✓ | ✓ | A | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | 8 | Banu Priya G |
| 35 | 811220106008 | BHARATHIDASAN C | II / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Bharathidasan C |
| 36 | 811220106018 | J.JANCY | II / ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | J.Jancy |

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|-------|--------------|---------------------|-----------------|------------|----|------------|----|------------|----|------------|----|------------|----|-------------------------------|--------------------------------|
| | | | | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | | |
| 37 | 811220106019 | JEEVASEN N | | | | | | | | | | | | | |
| 38 | 811220106021 | KAMARAJ S | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Jeevasen |
| 39 | 811220106022 | C.KARTHICK | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Kamaraj S |
| 40 | 811220106023 | S.KARTHIKA | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Karthika |
| 41 | 811220106025 | KISHORE R | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Kishore R |
| 42 | 811220106026 | M. KISHORE KUMAR | II/ ECE | ✓ | ✓ | ✓ | ✓ | A | ✓ | A | ✓ | ✓ | ✓ | 9 | Kishore R |
| 43 | 811220106028 | MANCY.E | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | ✓ | 8 | Kishore R |
| 44 | 811220106031 | PRADHAP.J | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Kishore R |
| 45 | 811220106032 | PRASANNA.A | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Kishore R |
| 46 | 811220106033 | PREETHIKA.M | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | ✓ | 9 | Kishore R |
| 47 | 811220106034 | PREMALATHA.M | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Kishore R |
| 48 | 811220106037 | SHRI HARINI PRIYA B | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Prasanna |
| 49 | 811220106038 | SNEGA M | II/ ECE | A | ✓ | A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10 | Prasanna |
| 50 | 811220106039 | SOBI AMIRTHA N | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Prasanna |
| 51 | 811220106041 | SUNIL KUMAR B | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 8 | Prasanna |
| 52 | 811220106042 | SUSILA N | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 8 | Prasanna |
| 53 | 811220106049 | YOGA PRIYA.R | II/ ECE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Prasanna |
| | | | II/ ECE | A | ✓ | ✓ | ✓ | ✓ | ✓ | A | ✓ | ✓ | ✓ | 10 | Prasanna |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 9 | Prasanna |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 8 | Prasanna |

Balakrishnan
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M. Bhuvanendran
 HoD/ECE



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Department of Electronics and Communication Engineering

Academic Year 2021-2022 – Odd Semester

VALUE ADDED COURSE ASSESMENT SHEET

Lab View

| S.NO | REG NO | STUDENTS NAME | YEAR/ BRANCH | Attendance Details | | VAC-MCQ TEST | | OVERALL MARK(100) (50% of A + 50% of B) |
|------|--------------|-----------------|-----------------|-------------------------------|--------------------------------|-----------------------------|-------------------------|--|
| | | | | No. of Session Attended | Attendance Mark(100) (A) | No of Correct Answers | MCQ Mark(100) (B) | |
| 1 | 811218106001 | ABINAYA R | IV/ECE | 30 | 100 | 24 | 96 | 98 |
| 2 | 811218106002 | AKILA K | IV/ECE | 30 | 100 | 25 | 100 | 100 |
| 3 | 811218106004 | ARTHI M | IV/ECE | 30 | 100 | 23 | 92 | 96 |
| 4 | 811218106005 | AZHAGU MEENA M | IV/ECE | 30 | 100 | 23 | 92 | 96 |
| 5 | 811218106006 | DEVI K | IV/ECE | 27 | 90 | 18 | 72 | 81 |
| 6 | 811218106007 | DHANALAKSHMI S | IV/ECE | 30 | 100 | 21 | 84 | 92 |
| 7 | 811218106008 | HARI KRISHNAN S | IV/ECE | 30 | 100 | 20 | 80 | 90 |
| 8 | 811218106009 | JANANI V | IV/ECE | 30 | 100 | 23 | 92 | 96 |
| 9 | 811218106010 | JENIFER C | IV/ECE | 30 | 100 | 24 | 96 | 98 |
| 10 | 811218106011 | JENIFER S | IV/ECE | 30 | 100 | 20 | 80 | 90 |
| 11 | 811218106012 | KESAVAMURTHI M | IV/ECE | 30 | 100 | 22 | 88 | 94 |

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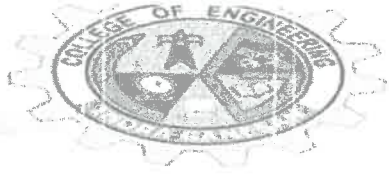
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|------|--------------|-------------------|-----------------|-------------------------------|--------------------------------|-----------------------------|-------------------------|--|
| | | | | No. of Session Attended | Attendance Mark(100) (A) | No of Correct Answers | MCQ Mark(100) (B) | |
| 12 | 811218106013 | KIRUTHIKA S | IV / ECE | 27 | 90 | 20 | 80 | 85 |
| 13 | 811218106015 | MARIA FRANCIS D | IV / ECE | 30 | 100 | 21 | 84 | 92 |
| 14 | 811218106016 | RAGAVI A | IV / ECE | 30 | 100 | 19 | 76 | 88 |
| 15 | 811218106017 | RUTHRAMOORTHY M | IV / ECE | 27 | 90 | 19 | 76 | 83 |
| 16 | 811218106018 | SABARINATHAN K | IV / ECE | 24 | 80 | 20 | 80 | 80 |
| 17 | 811218106019 | SARMILA M | IV / ECE | 24 | 80 | 21 | 84 | 82 |
| 18 | 811218106020 | SUMATHI S | IV / ECE | 27 | 90 | 22 | 88 | 89 |
| 19 | 811218106021 | THIVYA PRIYA R | IV / ECE | 30 | 100 | 20 | 80 | 90 |
| 20 | 811219106001 | DAYANA P | III / ECE | 27 | 90 | 21 | 84 | 87 |
| 21 | 811219106002 | DEVIKA K | III / ECE | 24 | 80 | 20 | 80 | 80 |
| 22 | 811219106003 | DINESH J | III / ECE | 27 | 90 | 21 | 84 | 87 |
| 23 | 811219106004 | MOHANA SUNDARAM K | III / ECE | 30 | 100 | 20 | 80 | 90 |
| 24 | 811219106005 | RAVIKUMAR B | III / ECE | 30 | 100 | 20 | 80 | 90 |
| 25 | 811219106006 | SANTHANARAJ A | III / ECE | 30 | 100 | 19 | 76 | 88 |
| 26 | 811219106007 | SHYAM CR | III / ECE | 30 | 100 | 21 | 84 | 92 |
| 27 | 811219106008 | SRIKANTH M | III / ECE | 27 | 90 | 19 | 76 | 83 |
| 28 | 811219106009 | SURENDRAN S | III / ECE | 27 | 90 | 19 | 76 | 83 |
| 29 | 811219106010 | SURYA V | III / ECE | 27 | 90 | 19 | 76 | 83 |
| 30 | 811219106011 | SWETHA K | III / ECE | 27 | 90 | 19 | 76 | 83 |

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|------|--------------|---------------------|-----------------|-------------------------------|--------------------------------|-----------------------------|-------------------------|--|
| | | | | No. of Session Attended | Attendance Mark(100) (A) | No of Correct Answers | MCQ Mark(100) (B) | |
| 31 | 811219106301 | YUVASHREE S | III / ECE | 30 | 100 | 19 | 76 | 88 |
| 32 | 811219106701 | VIJAYALAKSHMI V | III / ECE | 27 | 90 | 19 | 76 | 83 |
| 33 | 811219106702 | PONNARASU S | III / ECE | 24 | 80 | 21 | 84 | 82 |
| 34 | 811220106006 | BANU PRIYA G | III / ECE | 27 | 90 | 20 | 80 | 85 |
| 35 | 811220106008 | BHARATHIDASAN C | II/ ECE | 30 | 100 | 21 | 84 | 92 |
| 36 | 811220106018 | J.JANCY | II/ ECE | 27 | 90 | 19 | 76 | 83 |
| 37 | 811220106019 | JEEVASEN N | II/ ECE | 30 | 100 | 19 | 76 | 88 |
| 38 | 811220106021 | KAMARAJ.S | II/ ECE | 30 | 100 | 19 | 76 | 88 |
| 39 | 811220106022 | C.KARTHICK | II/ ECE | 30 | 100 | 21 | 84 | 92 |
| 40 | 811220106023 | S.KARTHIKA | II/ ECE | 27 | 90 | 21 | 84 | 87 |
| 41 | 811220106025 | KISHORE R. | II/ ECE | 24 | 80 | 20 | 80 | 80 |
| 42 | 811220106026 | M. KISHORE KUMAR | II/ ECE | 27 | 90 | 21 | 84 | 87 |
| 43 | 811220106028 | MANCY.E | II/ ECE | 30 | 100 | 20 | 80 | 90 |
| 44 | 811220106031 | PRADHAP.J | II/ ECE | 27 | 90 | 19 | 76 | 83 |
| 45 | 811220106032 | PRASANNA.A.J | II/ ECE | 30 | 100 | 19 | 76 | 88 |
| 46 | 811220106033 | PREETHIKA.M | II/ ECE | 30 | 100 | 21 | 84 | 92 |
| 47 | 811220106034 | PREMALATHA.M | II/ ECE | 27 | 90 | 19 | 76 | 83 |
| 48 | 811220106037 | SHRI HARINI PRIYA B | II/ ECE | 24 | 80 | 20 | 80 | 80 |
| 49 | 811220106038 | SNEGA M | II/ ECE | 24 | 80 | 20 | 80 | 80 |


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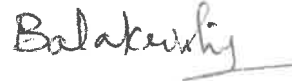



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| S.NO | REG NO | STUDENTS NAME | YEAR/ BRANCH | Attendance Details | | VAC-MCQ TEST | | OVERALL MARK(100) (50% of A + 50% of B) |
|------|--------------|----------------|-----------------|-------------------------------|--------------------------------|-----------------------------|-------------------------|--|
| | | | | No. of Session Attended | Attendance Mark(100) (A) | No of Correct Answers | MCQ Mark(100) (B) | |
| 50 | 811220106039 | SOBI AMIRTHA N | II/ ECE | 27 | 90 | 19 | 76 | 83 |
| 51 | 811220106041 | SUNIL KUMAR B | II/ ECE | 30 | 100 | 20 | 80 | 90 |
| 52 | 811220106042 | SUSILA N | II/ ECE | 27 | 90 | 19 | 76 | 83 |
| 53 | 811220106049 | YOGA PRIYA.R | II/ ECE | 24 | 80 | 21 | 84 | 82 |


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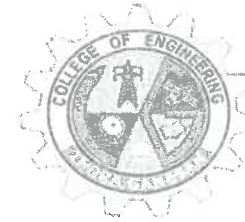
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This is to certify that Ms. Akila K , IV Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Pantech Solutions from 01st March 2022 to 05th March 2022 (5days) during the Academic year 2021-2022.


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This is to certify that Ms.JENIFER S,IV Year,ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01stMarch 2022 to 05thMarch 2022 (5days) during the Academic year 2021-2022.

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This is to certify that Ms.SARMILA M, IV Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01st March 2022 to 05th March 2022 (5 days) during the Academic year 2021-2022.

Tamil

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Human Resource Manager

[Signature]

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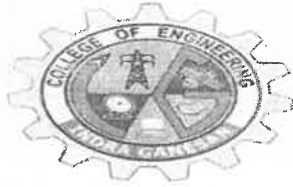
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This is to certify that Ms. AZHAGU MEENA M, IV Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01st March 2022 to 05th March 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Ms.DAYANA P, III Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01st March 2022 to 05th March 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Mr.DINESH J,III Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01stMarch 2022 to 05thMarch 2022 (5days) during the Academic year 2021-2022.

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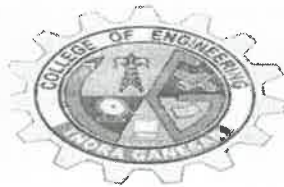
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This is to certify that Mr. RAVI KUMAR B, III Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01st March 2022 to 05th March 2022 (5 days) during the Academic year 2021-2022.

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This is to certify that Mr.SURYA V,III Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01stMarch 2022 to 05thMarch 2022 (5days) during the Academic year 2021-2022.

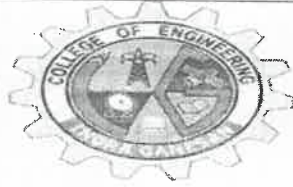
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This is to certify that Mr.PONNARASU S,III Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01stMarch 2022 to 05thMarch 2022 (5days) during the Academic year 2021-2022.

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This is to certify that Ms.JANCY J,II Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01stMarch 2022 to 05thMarch 2022 (5days) during the Academic year 2021-2022.

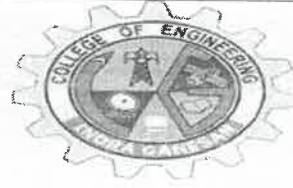
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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with B+ Grade

CERTIFICATE OF PARTICIPATION

This is to certify that Ms.SUSILA N, II Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01st March 2022 to 05th March 2022 (5 days) during the Academic year 2021-2022.

Tamil

Galwin Technology
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Human Resource Manager

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CERTIFICATE OF PARTICIPATION

This is to certify that Ms.YOGA PRIYA R,II Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01stMarch 2022 to 05thMarch 2022 (5days) during the Academic year 2021-2022.

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CERTIFICATE OF PARTICIPATION

This is to certify that Ms.DEVIKA K ,III Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01stMarch 2022 to 05thMarch 2022 (5days) during the Academic year 2021-2022.

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr.KISHORE R,II Year, ECE has successfully completed the Value Added Course on “Lab View” organized by Department of Electronics & Communication Engineering and IQAC of our Institution in Association with Galwin technology from 01stMarch 2022 to 05thMarch 2022 (5days) during the Academic year 2021-2022.

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