



CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Ph: +91 91500 76729

Email: principal@ckec.ac.in

Web: www.ckec.ac.in

PERMISSION LETTER

Date:02.09.2021

From

Ms.Pavithra.L
Assistant Professor / Course Coordinator
Department of Electronics and Communication Engineering
Christ the King Engineering College
Coimbatore

To

The Principal
Christ the King Engineering College
Coimbatore

Through : Head of The Department / Electronics and Communication Engineering


Respected Sir,

Sub: Requesting permission to organize a Value-Added Course on " Industrial Automation using Lab View " - Reg.

Department of Electronics and Communication Engineering is planning to organize a Value-Added Course on " Industrial Automation using Lab View " from 04.09.2021 to 27.09.2021 for Third and Final year ECE students.

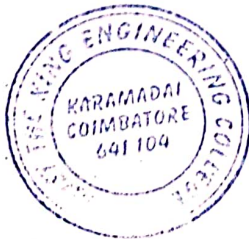
Mrs.S.V.Kiruthika, Assistant Professor, Department of Electronics and Communication Engineering as a Resource Person. In this regard, we seek your permission to conduct the same in the Seminar Hall from 04.09.2021 to 22.09.2021 from 4 pm to 7 pm. Kindly consider our request and grant the same.


Thanking You,


Yours truly,




Approved




Dr.M.JEYAKUMAR, M.E.,Ph.D.
PRINCIPAL
CHRIST THE KING ENGINEERING COLLEGE,
Chikkarampalayam Village,
Karamadai, Mettupalayam Taluk,
Coimbatore - 641 104.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

RefNo: CKEC/ECE/VAC/2021-2022/04

DATE:03.09.2021

CIRCULAR

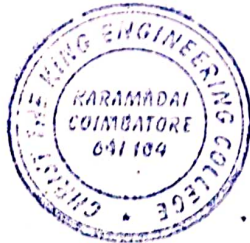
This is to inform that the Department of Electronics and Communication engineering is planning to conduct a value-added course on "Industrial Automation using Lab View" for all third and final year students on 04.09.2021 to 22.09.2021 Students are asked to register you and utilize this opportunity to improve their skills.

S. No	Course Code	Name of the Course	Department	No of Hours	Course Coordinator
1	VACEC2104	Industrial Automation using Lab View	ECE	30	Ms.Pavithra.L

Note: The circular Display in the department Notice board for student's attention.

Copy to:
Principal
Notice board

Vno
HoD / ECE



Dr. M. Jeyakumar
Dr.M.JEYAKUMAR, M.E., Ph.D.
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING Organizes

Value Added Course on

INDUSTRIAL AUTOMATION USING LABVIEW 04.09.2021 TO 27.09.2021 (4 TO 7PM)

Resource Person

MRS. S. V. KIRUTHIKA
ASSISTANT PROFESSOR
DEPARTMENT OF ECE

CHIEF PATRON
DR. M. JEYAKUMAR
Principal

Venue:
Seminar Hall

PATRON
MR. V. MURALIDHARAN
HOD / ECE

COORDINATOR
Ms. L. PAVITHRA
AP / ECE



Dr. M. Jeyakumar
Principal
Christ the King Engineering College
Chikkalampalayam Village,
Karamadai, near Annayan Taluk,
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Course Code	VACEC2104
Name Of the Course	Industrial Automation using Lab View
Duration Of the Course	30 Hours
Academic Year	2021-2022
Period Of the Course	15 Days

COURSE OBJECTIVES:

- To enable the students to learn how to develop data acquisition, instrument control, data-logging, and measurement analysis applications
- To able to create applications using the state machine design pattern to acquire, analyze, process, visualize, and store real-world data

Syllabus

UNIT I- Problem Solving /Navigating LabVIEW/ Troubleshooting /Implementing (7)

Introduction - Software Development Method - Design - Implementation - Testing-

Virtual Instruments-Parts of a VI - Starting a VI - Front Panel Window-Block Diagram Window-Searching for Controls, Vis, and Functions-Selecting a Tool-Data Flow-Building a Simple VI-LabVIEW Help Utilities-Correcting Broken Vis-Debugging Techniques-Undefined or Unexpected Data-Error Checking and Error Handling-LabVIEW Data Types-While Loops-For Loops-Iterative Data Transfer-Case Structures-Formula Nodes

UNIT II – Relating Data / Storing Measurement Data/Developing Modular Application/Acquiring Data (7)

Introduction - Arrays-Clusters-Type Definitions-Understanding File I/O-Spreadsheet Example VI-Low-Level File I/O-Understanding Modularity-Building the Icon and Connector Pane-Determine Warnings VI-Communicating with Hardware-Simulating a DAQ Device-Measuring Analog Input-Generating Analog Output-Using Counters-Using Digital I/O

UNIT III – Instrument Control/ Common Design techniques and patterns



[Signature]
Dr. M. JEYAKUMAR, M.E., Ph.D. (7)
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Introduction- Using Serial Port Communication-Using Other Interfaces-Software

Architecture-Using the Instrument I/O Assistant-Using VISA-Using Instrument Drivers-g

Sequential Programming- State Programming-State Machines-Using Parallelism

UNIT IV – Common Design Techniques/ Communicating Among Multiple Loops/ Controlling the User Interface/ Advanced File I/O Techniques/ Creating and Distributing Applications (8)

Introduction - Single Loop Architectures- Multiple Loop Architectures- Timing a Design Pattern- Variables- Functional Global Variables- Queue Data- Global Data Project-Property_ Nodes~ ~Control References- Invoke Nodes- File Formats- TOM Files- Preparing the Application- Building the Application and Installer

TOTAL HOURS:29

COURSE OUTCOME:

At the end of the course, the students will be able

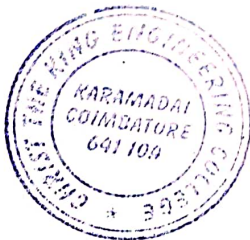
- Awareness on the concept of developing data acquisition, instrument control, data-logging, and measurement analysis applications
- Ability to create applications using the state machine design pattern
- Knowledge to Acquire, analyzes, process, visualize, and store real-world data.

Text books:

1. Jovitha Jerome, "Virtual Instrumentation using LabVIEW", PHI publication.
2. Gary W. Johnson, Richard Jennings, "LabVIEW Graphical programming", 4th edition, Tata Mc Graw Hill.

References:

1. Richard Jennings, Fabiola de la Cueva" Lab VIEW Graphical programming" , 5th edition Tata Mc Graw Hill.
2. www.ni.com



[Signature]
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VAEC2104 - Industrial Automation using Lab View SCHEDULE

S. No	DAY	TIME/SESSION	CONTENT	RESOURCE PERSON
1	04.09.2021	4.00-6.00pm	Module 1 -Problem Solving /Navigating Labview/ Troubleshooting /Implementing Introduction - Software Development Method - Design - Implementation - Testing-Virtual	Mrs.S.V.Kiruthika, Assistant Professor, Department of Electronics and Communication Engineering .
	07.09.2021	4.00-6.00pm	Instruments-Parts of a VI - Starting a VI - Front Panel Window-Block Diagram Window- Searching for Controls, Vis, and Functions-	
	08.09.2021	4.00-7.00pm	Selecting a Tool-Data Flow-Building a Simple VI-LabVIEW Help Utilities-Correcting Broken Vis-Debugging Techniques-Undefined or Unexpected Data-Error Checking and Error Handling-LabVIEW Data Types-While Loops-	
2	09.09.2021	4.00-6.00pm	Module 2 - Relating Data / Storing Measurement Data/Developing Modular Application/Acquiring Data Introduction - Arrays-Clusters-Type Definitions-Understanding File I/O-Spreadsheet	
	11.09.2021	4.00-6.00pm	Example VI-Low-Level File I/O- Understanding Modularity-Building the Icon and Connector Pane-Determine Warnings VI- Communicating with Hardware-Simulating a DAQ Device-Measuring Analog Input-	
	14.09.2021	4.00-7.00pm	Generating Analog Output-Using Counters- Using Digital I/O	



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3	15.09.2021	4.00-6.00pm	Module 3- Instrument Control/ Common Design techniques and patterns Introduction- Using Serial Port Communication-Using Other Interfaces- Software Architecture-Using the Instrument I/O Assistant-Using VISA-Using Instrument Drivers- Sequential Programming- State Programming-State Machines-Using Parallelism
	16.09.2021	4.00-6.00pm	
	17.09.2021	4.00-7.00pm	
4	18.09.2021	4.00-6.00pm	Module 4- Common Design Techniques/ Communicating Among Multiple Loops/ Controlling the User Interface/ Advanced File I/O Techniques/ Creating and Distributing Applications Introduction - Single Loop Architectures- Multiple Loop Architectures- Timing a Design Pattern- Variables- Functional Global Variables- Queue Data- Global Data Project-Property_ Nodes~ ~Control References- Invoke Nodes- File Formats- TOM Files- Preparing the Application- Building the Application and Installer.
	20.09.2021	4.00-7.00pm	
	21.09.2021	4.00-7.00pm	
5	22.09.2021	4.00-5.00pm	Test



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[Signature]
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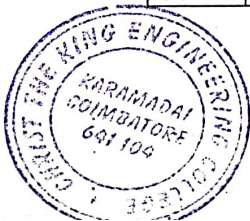
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VAEC2104 - Industrial Automation using Lab View STUDENT REGISTRATION

S.No	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE
1	710419106002	ARAVIND S E	Aravind
2	710419106006	DHIVAKARAN M	Dhivakar M
3	710419106007	DINESH KUMAR S	Dinesh
4	710419106008	GAYATHIRI VARSHINI R	Gayathiri
5	710419106009	GAYATHRI M	Gayathiri
6	710419106010	HARIHARAN C	Hariharan
7	710419106011	INDHUPRIYA S	Indhupriya
8	710419106012	KAILESHWARAN S	Kaileshwaran
9	710419106013	KANNIKA C	Kannika
10	710419106014	KARTHIKA K	Karthika
11	710419106016	KAVIYA S	Kaviya
12	710419106018	MANIKANDAN R	Manikandan
13	710419106019	MATHUMITHA G	Mathumitha
14	710419106020	MERLIN ALFINA M	Merlin
15	710419106021	PAUL MOHAN M	Paul Mohan
16	710419106023	PRIYANKA P	Priyanka
17	710419106026	RITHICK K	Rithick
18	710419106027	SIBI CHAKRAVARTHI B	Sibi
19	710419106028	SOWBARNIKA V	Sowbarnika
20	710419106029	SOWMIYA M	Sowmiya
21	710419106030	VASANTHA KUMAR K	Vasantha
22	710418106002	BALASUBRAMANIAN E	Bala
23	710418106003	BHUVANA J	Bhuvana
24	710418106004	BRINDHA P	Brindha
25	710418106005	CHANDHINI J	Chandhini
26	710418106007	CHITRA SELVI S	Chitra
27	710418106008	DHARANI G	Dharani
28	710418106009	GOWSIGAN M	Gowsigan
29	710418106010	HARIHARAN P	Hariharan
30	710418106011	JANANI K	Janani
31	710418106012	JEEVARAJ B	Jeevaraj
32	710418106013	JESWIN PATHROSE	Jeswin
33	710418106015	KIRUTHIKA K	Kiruthika
34	710418106016	LAZAR PRAVEEN P	Lazar
35	710418106017	MADHAVAN V	Madhavan
36	710418106018	MARLIN KETHRIN E	Marlin
37	710418106019	MUNENDRA S M	Munendra



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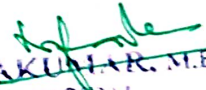
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38	710418106020	NANDHINI A	A. Nandhini
39	710418106022	NASREEN A	A. Nasir
40	710418106023	NIRMAL BABU	N. Babu
41	710418106024	PARAMESHWARI S	P. Parvathi
42	710418106026	POOJA K	P. Pooja
43	710418106027	PRAVEEN KUMAR M	M. Praveen
44	710418106028	RAMYA K	R. Ramya
45	710418106030	SANDHIYA S	S. Sandhya
46	710418106031	SARANYA S	S. Saranya
47	710418106032	SAROJINI DEVI N	S. Sarojini
48	710418106033	SHALINI A	S. Shalini
49	710418106034	SIREKA A	S. Sireka
50	710418106035	SNEHA S	S. Sneha
51	710418106036	SNEKA K	S. Sneha
52	710418106037	SUJITHA K	S. Sujitha
53	710418106038	SURYA P	S. Surya
54	710418106039	SWATHI THANGAM G	S. Swathi
55	710418106040	TEK BAHADUR ROKAYA J	T. Tek Bahadur
56	710418106042	YAMUNA YATHI S	Y. Yamuna
57	710418106301	NAVEEN KUMAR	N. Naveen



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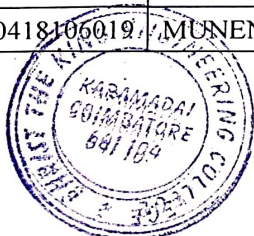
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VAEC2104 - Industrial Automation using Lab View STUDENTS ATTENDANCE LIST

S.No	REGISTER NUMBER	NAME OF THE STUDENT	04.09.2021	07.09.2021	08.09.2021	09.09.2021	11.09.2021
			4-6.00pm	4-6.00pm	4-7.00pm	4-6.00pm	4-6.00pm
1	710419106002	ARAVIND S E	Aravind	Aravind	Aravind	Aravind	Aravind
2	710419106006	DHIVAKARAN M	Dhivakar	Dhivakar	Dhivakar	Dhivakar	Dhivakar
3	710419106007	DINESH KUMAR S	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
4	710419106008	GAYATHIRI VARSHINI R	Gayathiri	Gayathiri	Gayathiri	Gayathiri	Gayathiri
5	710419106009	GAYATHRI M	Gayathiri	Gayathiri	Gayathiri	Gayathiri	Gayathiri
6	710419106010	HARIHARAN C	Hariharan	Hariharan	Hariharan	Hariharan	Hariharan
7	710419106011	INDHUPRIYA S	Indhupriya	Indhupriya	Indhupriya	Indhupriya	Indhupriya
8	710419106012	KAILESHWARAN S	Kaileshwaran	Kaileshwaran	Kaileshwaran	Kaileshwaran	Kaileshwaran
9	710419106013	KANNIKA C	Kannika	Kannika	Kannika	Kannika	Kannika
10	710419106014	KARTHIKA K	Karthika	Karthika	Karthika	Karthika	Karthika
11	710419106016	KAVIYA S	Kaviya	Kaviya	Kaviya	Kaviya	Kaviya
12	710419106018	MANIKANDAN R	Manikandan	Manikandan	Manikandan	Manikandan	Manikandan
13	710419106019	MATHUMITHA G	Mathu	Mathu	Mathu	Mathu	Mathu
14	710419106020	MERLIN ALFINA M	Merlin	Merlin	Merlin	Merlin	Merlin
15	710419106021	PAUL MOHAN M	M.Paul	M.Paul	M.Paul	M.Paul	M.Paul
16	710419106023	PRIYANKA P	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka
17	710419106026	RITHICK K	Rithick	Rithick	Rithick	Rithick	Rithick
18	710419106027	SIBI CHAKRAVARTHI B	Sibi	Sibi	Sibi	Sibi	Sibi
19	710419106028	SOWBARNIKA V	Sowbarnika	Sowbarnika	Sowbarnika	Sowbarnika	Sowbarnika
20	710419106029	SOWMIYA M	Sowmiya	Sowmiya	Sowmiya	Sowmiya	Sowmiya
21	710419106030	VASANTHA KUMAR K	Vanitha	Vanitha	Vanitha	Vanitha	Vanitha
22	710418106002	BALASUBRAMANIAN E	E.Bala	E.Bala	E.Bala	E.Bala	E.Bala
23	710418106003	BHUVANA J	J.Bhuvana	J.Bhuvana	J.Bhuvana	J.Bhuvana	J.Bhuvana
24	710418106004	BRINDHA P	P.B	P.B	P.B	P.B	P.B
25	710418106005	CHANDHINI J	Chandhini	Chandhini	Chandhini	Chandhini	Chandhini
26	710418106007	CHITRA SELVI S	Selvi	Selvi	Selvi	Selvi	Selvi
27	710418106008	DHARANI G	Dharani	Dharani	Dharani	Dharani	Dharani
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30	710418106011	JANANI K	Janani	Janani	Janani	Janani	Janani
31	710418106012	JEEVARAJ B	Jeera	Jeera	Jeera	Jeera	Jeera
32	710418106013	JESWIN PATHROSE	Jeswin	Jeswin	Jeswin	Jeswin	Jeswin
33	710418106015	KIRUTHIKA K	Kiruthika	Kiruthika	Kiruthika	Kiruthika	Kiruthika
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35	710418106017	MADHAVAN V	V.M	V.M	V.M	V.M	V.M
36	710418106018	MARLIN KETHRIN E	M.K.E	M.K.E	M.K.E	M.K.E	M.K.E
37	710418106019	MUNENDRA S M	Munendra	Munendra	Munendra	Munendra	Munendra



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41	710418106024	PARAMESHWARI S	S. Parthi	S. Parthi	S. Parthi	S. Parthi	S. Parthi
42	710418106026	POOJA K	K. Pooja	K. Pooja	K. Pooja	K. Pooja	K. Pooja
43	710418106027	PRAVEEN KUMAR M	M. Pul	M. Pul	M. Pul	M. Pul	M. Pul
44	710418106028	RAMYA K	K. Ramya	K. Ramya	K. Ramya	K. Ramya	K. Ramya
45	710418106030	SANDHIYA S	S. Sandhya	S. Sandhya	S. Sandhya	S. Sandhya	S. Sandhya
46	710418106031	SARANYA S	S. Saranya	S. Saranya	S. Saranya	S. Saranya	S. Saranya
47	710418106032	SAROJINI DEVI N	N. Sarojini	N. Sarojini	N. Sarojini	N. Sarojini	N. Sarojini
48	710418106033	SHALINI A	A. Shalini	A. Shalini	A. Shalini	A. Shalini	A. Shalini
49	710418106034	SIREKA A	A. Sireka	A. Sireka	A. Sireka	A. Sireka	A. Sireka
50	710418106035	SNEHA S	S. Sneha	S. Sneha	S. Sneha	S. Sneha	S. Sneha
51	710418106036	SNEKA K	K. Sneha	K. Sneha	K. Sneha	K. Sneha	K. Sneha
52	710418106037	SUJITHA K	K. Sujitha	K. Sujitha	K. Sujitha	K. Sujitha	K. Sujitha
53	710418106038	SURYA P	P. Surya	P. Surya	P. Surya	P. Surya	P. Surya
54	710418106039	SWATHI THANGAM G	G. Swathy	G. Swathy	G. Swathy	G. Swathy	G. Swathy
55	710418106040	TEK BHADUR ROKAYA J	J. Rokka	J. Rokka	J. Rokka	J. Rokka	J. Rokka
56	710418106042	YAMUNA VATHI S	S. Yamuna	S. Yamuna	S. Yamuna	S. Yamuna	S. Yamuna
57	710418106301	NAVEEN KUMAR	K. Naveen	K. Naveen	K. Naveen	K. Naveen	K. Naveen



VNO
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S.No	REGISTER NUMBER	NAME OF THE STUDENT	14.09.2021	15.09.2021	16.09.2021	17.09.2021	18.09.2021
			4-7.00pm	4-6.00pm	4-6.00pm	4-7.00pm	4-6.00pm
1	710419106002	ARAVIND S E	Aravind	Aravind	Aravind	Aravind	Aravind
2	710419106006	DHIVAKARAN M	Dhivagat	Dhivagat	Dhivagat	Dhivagat	Dhivagat
3	710419106007	DINESH KUMAR S	Dinsh	Dinsh	Dinsh	Dinsh	Dinsh
4	710419106008	GAYATHRI VARSHINI R	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri
5	710419106009	GAYATHRI M	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri
6	710419106010	HARIHARAN C	Harihar	Harihar	Harihar	Harihar	Harihar
7	710419106011	INDHUPRIYA S	Indhu	Indhu	Indhu	Indhu	Indhu
8	710419106012	KAILESHWARAN S	Kailesh	Kailesh	Kailesh	Kailesh	Kailesh
9	710419106013	KANNIKA C	Kannika	Kannika	Kannika	Kannika	Kannika
10	710419106014	KARTHIKA K	Karthika	Karthika	Karthika	Karthika	Karthika
11	710419106016	KAVIYA S	Kaviya	Kaviya	Kaviya	Kaviya	Kaviya
12	710419106018	MANIKANDAN R	Manikan	Manikan	Manikan	Manikan	Manikan
13	710419106019	MATHUMITHA G	Mathu	Mathu	Mathu	Mathu	Mathu
14	710419106020	MERLIN ALFINA M	Merina	Merina	Merina	Merina	Merina
15	710419106021	PAUL MOHAN M	Paul	Paul	Paul	Paul	Paul
16	710419106023	PRIYANKA P	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka
17	710419106026	RITHICK K	Rithick	Rithick	Rithick	Rithick	Rithick
18	710419106027	SIBI CHAKRAVARTHI B	Sibi	Sibi	Sibi	Sibi	Sibi
19	710419106028	SOWBARNIKA V	Sowbar	Sowbar	Sowbar	Sowbar	Sowbar
20	710419106029	SOWMIYA M	Sowmi	Sowmi	Sowmi	Sowmi	Sowmi
21	710419106030	VASANTHA KUMAR K	Vanitha	Vanitha	Vanitha	Vanitha	Vanitha
22	710418106002	BALASUBRAMANIAN E	Bala	Bala	Bala	Bala	Bala
23	710418106003	BHUVANA J	Bhuvana	Bhuvana	Bhuvana	Bhuvana	Bhuvana
24	710418106004	BRINDHA P	Brindha	Brindha	Brindha	Brindha	Brindha
25	710418106005	CHANDHINI J	Chandhini	Chandhini	Chandhini	Chandhini	Chandhini
26	710418106007	CHITRA SELVI S	Chitra	Chitra	Chitra	Chitra	Chitra
27	710418106008	DHARANI G	Dharani	Dharani	Dharani	Dharani	Dharani
28	710418106009	GOWSIGAN M	Gowsigan	Gowsigan	Gowsigan	Gowsigan	Gowsigan
29	710418106010	HARIHARAN P	Harihar	Harihar	Harihar	Harihar	Harihar
30	710418106011	JANANI K	Janani	Janani	Janani	Janani	Janani
31	710418106012	JEEVARAJ B	Jevara	Jevara	Jevara	Jevara	Jevara
32	710418106013	JESWIN PATHROSE	Jeswin	Jeswin	Jeswin	Jeswin	Jeswin
33	710418106015	KIRUTHIKA K	Kiruthika	Kiruthika	Kiruthika	Kiruthika	Kiruthika
34	710418106016	LAZAR PRAVEEN P	Lazar	Lazar	Lazar	Lazar	Lazar
35	710418106017	MADHAVAN V	Madhavan	Madhavan	Madhavan	Madhavan	Madhavan
36	710418106018	MARLIN KETHRIN E	Marlin	Marlin	Marlin	Marlin	Marlin
37	710418106019	MUNENDRA S M	Munendra	Munendra	Munendra	Munendra	Munendra
38	710418106020	NANDHINI A	Nandhini	Nandhini	Nandhini	Nandhini	Nandhini
39	710418106022	NASREEN A	Nasreen	Nasreen	Nasreen	Nasreen	Nasreen
40	710418106023	NIRMAL BABU	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal
41	710418106024	PARAMESHWARI S	Paramesh	Paramesh	Paramesh	Paramesh	Paramesh
42	710418106026	POOJA K	Pooja	Pooja	Pooja	Pooja	Pooja
43	710418106027	PRAVEEN KUMAR M	Praveen	Praveen	Praveen	Praveen	Praveen



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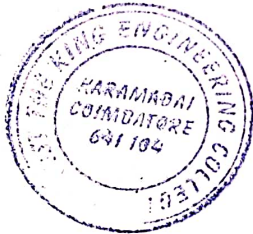
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44	710418106028	RAMYA K	Ramyak	Ramyak	Ramyak	Ramyak	Ramyak
45	710418106030	SANDHIYA S	Sandhiya	Sandhiya	Sandhiya	Sandhiya	Sandhiya
46	710418106031	SARANYA S	Saranya	Saranya	Saranya	Saranya	Saranya
47	710418106032	SAROJINI DEVI N	Sarojini	Sarojini	Sarojini	Sarojini	Sarojini
48	710418106033	SHALINI A	Shalini	Shalini	Shalini	Shalini	Shalini
49	710418106034	SIREKA A	Sireka	Sireka	Sireka	Sireka	Sireka
50	710418106035	SNEHA S	Sneha	Sneha	Sneha	Sneha	Sneha
51	710418106036	SNEKA K	Sneka	Sneka	Sneka	Sneka	Sneka
52	710418106037	SUJITHA K	Sujitha	Sujitha	Sujitha	Sujitha	Sujitha
53	710418106038	SURYA P	P.Surya	P.Surya	P.Surya	P.Surya	P.Surya
54	710418106039	SWATHI THANGAM G	Swathy	Swathy	Swathy	Swathy	Swathy
55	710418106040	TEK BAHADUR ROKAYA J	Rokaya	Rokaya	Rokaya	Rokaya	Rokaya
56	710418106042	YAMUNA VATHI S	Yamuna	Yamuna	Yamuna	Yamuna	Yamuna
57	710418106301	NAVEEN KUMAR	Naveen	Naveen	Naveen	Naveen	Naveen



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2	710419106006	DHIVAKARAN M.	Dhivakar	Dhivakar	Dhivakar
3	710419106007	DINESH KUMAR S	Dinesh	Dinesh	Dinesh
4	710419106008	GAYATHIRI.VARSHINI R	Gayathiri	Gayathiri	Gayathiri
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7	710419106011	INDHUPRIYA S	Indhupriya	Indhupriya	Indhupriya
8	710419106012	KAILESHWARAN S	Kaileshwaran	Kaileshwaran	Kaileshwaran
9	710419106013	KANNIKA C	Kannika	Kannika	Kannika
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14	710419106020	MERLIN ALFINA M	Merlina	Merlina	Merlina
15	710419106021	PAUL MOHAN M	Paul Mohan	Paul Mohan	Paul Mohan
16	710419106023	PRIYANKA P	Priyanka	Priyanka	Priyanka
17	710419106026	RITHICK K	Rithick	Rithick	Rithick
18	710419106027	SIBI CHAKRAVARTHI B	Sibi	Sibi	Sibi
19	710419106028	SOWBARNIKA V	Sowbarnika	Sowbarnika	Sowbarnika
20	710419106029	SOWMIYA M	Sowmiya	Sowmiya	Sowmiya
21	710419106030	VASANTHA KUMAR K	Vasanth	Vasanth	Vasanth
22	710418106002	BALASUBRAMANIAN E	E. Balasubramanian	E. Balasubramanian	E. Balasubramanian
23	710418106003	BHUVANA J	Bhuvana	Bhuvana	Bhuvana
24	710418106004	BRINDHA P	Brindha	Brindha	Brindha
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27	710418106008	DHARANI G	Dharani	Dharani	Dharani
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40	710418106023	NIRMAL BABU	Nirmal Babu	Nirmal Babu	Nirmal Babu



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42	710418106026	POOJA K	lc.Pooja	lc.Pooja	lc.Pooja
43	710418106027	PRAVEEN KUMAR M	M.Pal	M.Pal	M.Pal
44	710418106028	RAMYA K	Ramya	Ramya	Ramya
45	710418106030	SANDHIYA S	Sandhya	Sandhya	Sandhya
46	710418106031	SARANYA S	Saranya	Saranya	Saranya
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53	710418106038	SURYA P	Surya	Surya	Surya
54	710418106039	SWATHI THANGAM G	Swathi	Swathi	Swathi
55	710418106040	TEK BAHADUR ROKAYA J	Tek Bahadur	Tek Bahadur	Tek Bahadur
56	710418106042	YAMUNA VATHI S	Yamuna	Yamuna	Yamuna
57	710418106301	NAVEEN KUMAR	Naveen	Naveen	Naveen



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VAEC2104 - Industrial Automation using Lab View

MULTIPLE CHOICE QUESTION

1. Which of the following is not a common input device in a control system?
 - a) Speakers
 - b) Sensors
 - c) Actuators
 - d) Timers
2. What type of control system uses a set of pre-programmed instructions to control a process?
 - a) Programmable Logic Control
 - b) Sequential control
 - c) Proportional control
 - d) Integral control
3. Which type of control is used to adjust the speed of a motor?
 - a) Servo control
 - b) Proportional control
 - c) On-off control
 - d) Integral control
4. What type of control system uses a model of the process being controlled to make decisions?
 - a) Model-based control
 - b) Fuzzy control
 - c) Neural network control
 - d) All of the above
5. What type of control system uses feedback to adjust the output in order to maintain a constant set point?
 - a) Open-loop control
 - b) Hybrid control
 - c) None
 - d) Closed-loop control
6. Which component of a control system compares the desired output to the actual output?



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- a) Sensor
- b) Actuator
- c) **Comparator**
- d) Control valve

7. What type of control system adjusts the output based on the rate of change of the input?

- a) Proportional control
- b) Integral control
- c) All
- d) **Derivative control**

8. What type of control system adjusts the output based on the accumulated error over time?

- a) Proportional control
- b) **Integral control**
- c) Derivative control
- d) All of the above


9. What is the function of a BMS in industrial automation?

- (a) To manage and control building systems such as HVAC, lighting, and security
- (b) To monitor and analyze energy consumption in buildings
- (c) To provide remote access to building systems
- (d) **All of the above**

10. What is the function of a VFD in industrial automation?

- (a) To control the speed of AC motors
- (b) To control the torque of AC motors
- (c) To control the power consumption of AC motors
- (d) **All of the above**




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VAEC2104 - Industrial Automation using Lab View

STUDENTS ASSESSMENT MARKS

S.No	REGISTER NUMBER	NAME OF THE STUDENT	MARKS (10)
1	710419106002	ARAVIND S E	9
2	710419106006	DHIVAKARAN M	10
3	710419106007	DINESH KUMAR S	10
4	710419106008	GAYATHIRI VARSHINI R	9
5	710419106009	GAYATHRI M	9
6	710419106010	HARIHARAN C	9
7	710419106011	INDHUPRIYA S	9
8	710419106012	KAILESHWARAN S	10
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36	710418106018	MARLIN KETHRIN E	9
37	710418106019	MUNENDRA S M	9
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39	710418106022	NASREEN A	10
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47	710418106032	SAROJINI DEVI N	10
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49	710418106034	SIREKA A	9
50	710418106035	SNEHA S	10
51	710418106036	SNEKA K	8
52	710418106037	SUJITHA K	9
53	710418106038	SURYA P	10
54	710418106039	SWATHI THANGAM G	10
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VACEC2104 - Industrial Automation Using LabView

MULTIPLE CHOICE QUESTION

Name : Pooja.K
Register No. : 710418106026
Year / Sem : III / V
Academic Year : 2021-22

1. Which of the following is not a common input device in a control system?

- a) Speakers
- b) Sensors
- c) Actuators
- d) Timers



2. What type of control system uses a set of pre-programmed instructions to control a process?

- a) Programmable Logic Control
- b) Sequential control
- c) Proportional control
- d) Integral control



3. Which type of control is used to adjust the speed of a motor?

- a) Servo control
- b) Proportional control
- c) On-off control
- d) Integral control



4. What type of control system uses a model of the process being controlled to make decisions?


- a) Model-based control
- b) Fuzzy control
- c) Neural network control
- d) All of the above



5. What type of control system uses feedback to adjust the output in order to maintain a constant setpoint?

- a) On-off control




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- b) Hybrid control
- c) None
- ✓d) Closed-loop control



6. Which component of a control system compares the desired output to the actual output?

- ✓a) Sensor
- b) Actuator
- c) Comparator
- d) Control valve



7. What type of control system adjusts the output based on the rate of change of the input?

- a) Proportional control
- b) Integral control
- c) All
- ✓d) Derivative control



8. What type of control system adjusts the output based on the accumulated error over time?

- a) Proportional control
- b) Integral control
- c) Derivative control
- ✓d) All of the above



9. What is the function of a BMS in industrial automation?

- (a) To manage and control building systems such as HVAC, lighting, and security
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- (c) To provide remote access to building systems
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10. What is the function of a VFD in industrial automation?

- (a) To control the speed of AC motors
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- (c) To control the power consumption of AC motors
- ✓d) All of the above



9/10



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Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

STUDENT FEEDBACK FORM

Name of the value added course: Industrial Automation Using LabView

Name of the student: V. Sowbarnika

Register Number: 710419106028

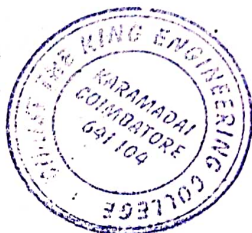
Year / semester: III / V
B 2019-2023

atch: Course
Coordinator: Ms. Pavithra.L

Academic Year: 2021-22

Sl.No.	Criteria	Rating				
		Excellent	Good	Average	Satisfactory	Poor
1.	Course content	✓				
2.	Individual attention	✓				
3.	Level of the course	✓				
4.	Regularity and knowledge of faculty		✓			
5.	Coverage of syllabus		✓			
6.	Interaction	✓				
7.	Outcome	✓				
	Total	25	8			
	Remarks	Good				

EXCELLENT-5 GOOD-4 AVERAGE-3 SATISFACTORY-2 POOR-1



V. Suf.
Signature of the student

Dr. M. Jeyakumar, M.E., Ph.D.
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Karamadai, Mettupalayam Taluk,
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POST EVENT REPORT

Course code	VACÉC2104
Name of the course	Industrial Automation Using LabView
Duration of the course	30 Hours
Academic year	2021-2022
Period of the course	13 Days
Coordinator & Faculty handling the course	Ms.L.Pavithra Mrs.S.V.Kiruthika
Number of the students registered	57
Number of the students completed	57
% of students completed the course	100%
Details of the course	The course details the usual remediation techniques practiced worldwide and provide an understanding of the relevant theoretical concepts. The current course will enable a student to: Develop understanding of integrated approaches to remediating contaminated sites.



[Signature]
Dr.M.LIBYAKUMAR, M.E.,Ph.D.
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PHOTOS



Signature
Dr. M. JAYAKUMAR, M.E., Ph.D.
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VALUE ADDED COURSE ON

“INDUSTRIAL AUTOMATION USING LABVIEW”

Certificate of Completion

This is to certify thatJANANI, K. (710418106011)..... has successfully completed the **Value Added Course** on **“Industrial Automation using LabView”** conducted by the Department of Electronics & Communication Engineering at Christ The King Engineering College from **04-09-2021 to 27-09-2021**.

Vno
HOD / ECE



M. Amle
PRINCIPAL

M. Amle
Dr.M.JEYAKUMAR, M.E..Ph.D.
PRINCIPAL
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VALUE ADDED COURSE ON

“INDUSTRIAL AUTOMATION USING LABVIEW”

Certificate of Completion

This is to certify thatK. KARTHIKA (710419106014)..... has successfully completed the **Value Added Course** on “**Industrial Automation using LabView**” conducted by the Department of Electronics & Communication Engineering at Christ The King Engineering College from **04-09-2021 to 27-09-2021**.

Vno
HOD / ECE



M. Jeyakumar
PRINCIPAL

M. Jeyakumar
Dr. M. JEYAKUMAR, M.E., Ph.D.
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