SMVITM

SOLUTIONS

MEMORANDUM OF UNDERSTANDING

BETWEEN

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING OF SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

AND

V I SOLUTIONS

This Agreement made and entered into on this **1st March, 2022** between **Department of Electronics and Communication Engineering of Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi-574115** (hereinafter called "**SMVITM**") and **V I SOLUTIONS** (hereinafter called " **V I Solutions**" which expression shall include its successors and permitted assignees) with its registered office at Bengaluru-**560094**.

1. OBJECTIVES OF THE MOU

The objective of this Memorandum of Understanding is:

a. To promote interaction between **SMVITM** and **VI Solutions** in mutually beneficial areas.
b. To provide a formal basis for initiating interaction between **SMVITM** and **VI Solutions**.

2. PROPOSED MODES OF COLLABORATION

SMVITM and **V I SOLUTIONS** propose to collaborate through

a. Supporting R&D projects, this may be carried out wholly at SMVITM.
b. Any other appropriate mode of interaction agreed upon between **SMVITM** and **V I SOLUTIONS**.

3. FORMS OF RESEARCH AND DEVELOPMENT PROGRAMS

The form of any of the said Research and Development Program (hereinafter referred to as "Research Program") will be subject to a separate Research Agreement entered into by the Parties but may also include the following:

a. **In their own existing facilities** - The performance of research individually by each Party or concurrently by both Parties in mixed groups at their own facilities with regular exchanges of results.
b. **In a separate research and development facility** - The performance of research by the technical personnel of both Parties working together in the facilities of one Party or in mixed groups at the facilities supported/ sponsored by either Party.
c. **Third parties** - The performance of research by the Parties together with one or more third parties.

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Vishwothama Nagar, Udupi Dist.
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4. TECHNICAL AREAS OF COLLABORATION

The principle technical areas of collaboration between **SMVITM** and **V I SOLUTIONS** will be as Internet of Things – IIoT, Machine Learning, Artificial Intelligence, Embedded System Design.

5. AGREEMENTS FOR RESEARCH COLLABORATION

Research undertaken by the **SMVITM**, the treatment of intellectual property and data rights, including patents, industrial design registration, copyrights and all other proprietary information (including innovations not patented, designs not registered etc.) will be remains to the original inventors and in the college name.

6. CONFIDENTIALITY

a. During and for a period of one year from the date of disclosure, each party agrees to consider as confidential all information disclosed by the other party in written or tangible form or, if orally disclosed confirmed in writing within thirty days of disclosure and identified as confidential by the disclosing party.

b. The obligations above shall not extend to any confidential information for which the receiving party can prove that this information:

- is in the public domain at the time of disclosure or comes within the public domain without fault of the receiving party.
- is already known or become known to the receiving party
- is received from a third party having no obligations of confidentiality to the disclosing party,
- is independently developed by the receiving party; or
- is required to be disclosed by law or court order.

7. NON-EXCLUSIVITY

The relationship of the parties under this MOU shall be nonexclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular research agreement, the participants may agree to limit each party's right to collaborate with others on that subject.

8. TERMS AND TERMINATION

This MOU, unless extended by mutual written agreement of the parties, shall expire **1 year** after the effective date specified in the opening paragraph. This MOU may be amended or terminated earlier by mutual written agreement of the parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 60 days' prior written notice to the other party. However, no such early termination of this MOU, whether mutual or unilateral, shall affect the obligations of the participants under any Research Agreement, Confidentiality clause as referenced in clause 6 above, or any other agreement entered into pursuant to this MOU, which obligations shall survive any such termination.

9. RELATIONSHIP

Nothing in this MOU shall be construed to make party a partner, an agent or legal representative of the other for any purpose.

(a) **Hands-on-Workshop / SDP**: VI Solutions will organize at least one hands-on-workshop on latest technologies like Industrial Internet of Things – IIoT, Machine Learning, Artificial Intelligence, Embedded System Design etc., for students as agreed terms and conditions every year. The College will provide the

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infrastructure facility for conducting such workshop in the campus. VI Solutions will provide certificates for the participants for workshops authorized by National Instruments.

(b) **FDP**: VI Solutions will organize at least one Faculty Development Program on latest technologies like Industrial Internet of Things – IIoT, Machine Learning, Artificial Intelligence, Embedded System Design etc., as agreed terms and conditions every year. The College will provide the infrastructure facility for conducting such workshop in the campus. VI Solutions will provide certificates for the participants for workshops authorized by National Instruments.

(c) **Internship:** VI Solutions will short list candidates for internships after workshop based on their performance and willingness.

(d) **Workshops/Events**: If the College wishes to organize a national event in the area of IoT, Machine Learning, Artificial Intelligence, Signal processing & Image Processing, VI Solutions will provide speakers.

10. ASSIGNMENT

It is understood by the Parties herein this MOU is based on the professional competence and expertise of each party and hence neither Party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party.

11. SIGNED IN DUPLICATE

This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

BY SIGNING BELOW, the parties, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

On behalf of

SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT BANTAKAL, UDUPI

By : Head Dept of E&C Engg. SMVITM, BANTAKAL - 574 115

Name : Dr. Sachin Bhat

Title : Assoc.Prof & Head – Dept. of ECE

Date : 01-03-2022

Witness:

1.

2.

on behalf of

V I SOLUTIONS, BENGALURU

VI SOLUTIONS BENGALURU

By :

Name : Sunil Kumar V

Title : Managing Director

Date : 01-03-2022

Witness:

1. Narayanan. R

2.

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(A Unit of Shri Sode Vadiraja Mutt Education Trust®, Udupi)

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Approved by AICTE, New Delhi & Recognized by Govt. of Karnataka

Vishwothama Nagar, Bantakal - 574115, Udupi District, Karnataka.

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ACTIVITY REPORT

Academic Year	2022-23
Name of the Program	Industrial Internship Program on IOT & Machine Learning using Lab View
Date	1 Sep to 30 Sep 2022 (4 Weeks)
Target Audience	Final Year Students
Resource Person	**Satyanarayan R** **VI Solutions Bengaluru**
Number of Participants	35

Photos

Latitude :13.254615
Longitude :74.785077

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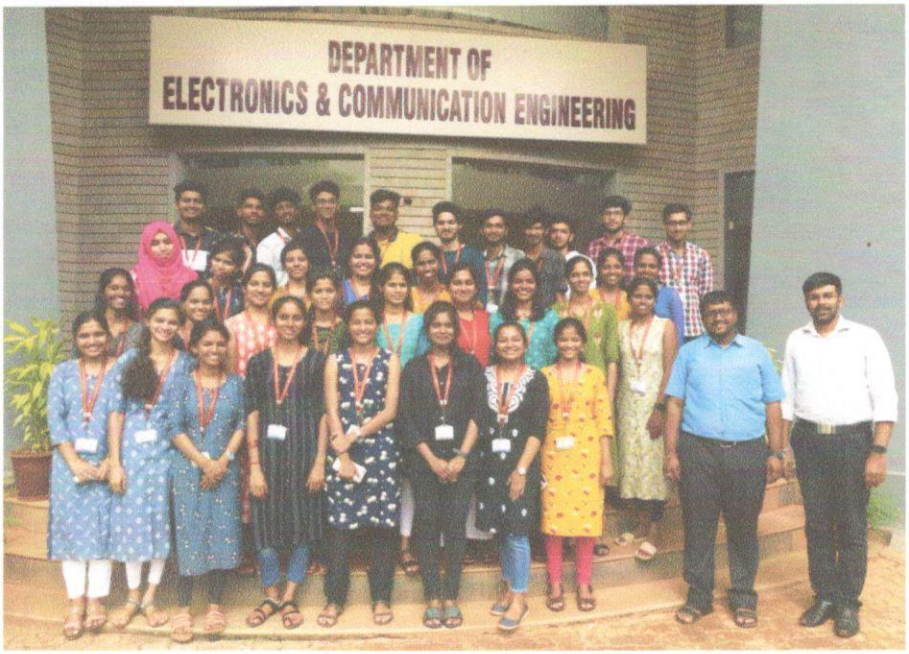

Latitude : 13.254751
Longitude : 74.785518

Tel: +91 820 258 9182 / 9183 | Fax: +91 820 2589184 | Mobile: 7483031199 | E-Mail: info@sode-edu.in | Website: www.sode-edu.in

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Detailed Report of the Activity

Electronics & Communication Engineering Department in association with VI Solutions Bengaluru had conducted 4 Weeks Industrial Internship Program on IOT & Machine Learning using Lab View from 1 Sep to 30 Sep 2022. Mr. Sathyanarayan R, Senior Technical Trainer, VI Solution, Bengaluru was the resource person and 35 final year students benefited from the program.

This Course has given the chance to explore the LabVIEW environment, dataflow programming, and common LabVIEW development techniques in a hands-on format. In this course, the participants had learnt to develop offline data-logging and measurement analysis applications. At the end of the course, participants had to create the applications using state machine design pattern, store offline data and also performed various analyses to the stored data. Topics covered were programmatic control of the user interface, techniques to optimize reuse of existing code, use of file I/O functions, and tools to create executable files and installers. This course helped directly to link Lab VIEW functionality to user's application needs and provided a jump-start for application development.

Dr. Sachin Bhat, HOD, ECE Dept. and Mr. Chetan R, Internship Coordinator have made the necessary arrangements for this program. Dr. Raghavendra Rao, Associate Professor supported this event.

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Data Acquisition and Hardware Programming

Course Outline:

Using LabVIEW, data acquisition devices, and signal conditioning hardware, the Data Acquisition and Signal Conditioning course teaches you the fundamentals of PC-based data acquisition and signal conditioning. During the course, you get hands-on experience installing and configuring data acquisition hardware and you learn to use data acquisition software functions to build your application.

- **Overview of a DAQ System**
  This topic introduces the basics of data acquisition (DAQ). You learn the purpose of each component in a data acquisition system. Topics include:
  - Components of a typical data acquisition system
  - Overview of sensors
  - Overview of types of signals and signal information
  - Overview of DAQ hardware, signal conditioning, and DAQ software

- **Data Acquisition Hardware and Software**
  In this part, you learn about DAQ hardware components, choosing an appropriate DAQ device, and DAQ software. Topics include:
  - Components of a DAQ device
  - Bus, signal, and accuracy considerations when choosing DAQ hardware
  - Configuring the Measurement & Automation Explorer (MAX)
  - Overview of DAQ Assistant

- **Analog Input**
  In this part, you develop LabVIEW applications that perform analog input.
  - Acquiring voltage signals using analog input
  - Single sample software-timed acquisition and continuous buffered acquisition

- **Analog Output**
  In this lesson, you learn different methods of generating voltage levels and waveforms on a DAQ device. Topics include:
  - Single sample and Continuous buffered generation

- **Digital I/O**
  This module describes digital signals and how to develop digital input and digital output applications using software timing and hardware timing. Topics include:
  - Digital Signals
  - Digital I/O

- **Counters**
  This part focuses on the counter functionality of a DAQ device. It begins with an overview of counters, including counter signals. The lesson also describes how to develop applications for various counter operations. Topics include:
  - Pulse Generation
  - Pulse Measurements

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Digital Image Processing

Course Outline:
The field of imaging or image processing has a very broad scope in today's digital era. This course covers a very large application of image processing called machine vision. Machine vision focuses on using a machine (an electronic camera connected to a computer) to replace the marvelous human vision system to process digital representations of actual scenes or objects.

- **Fundamentals of Image Processing**

The course reviews many important fundamentals such as CCD cameras, image acquisition, lighting techniques, and many basic IMAQ Vision and image processing basic programming concepts. Topics include:

  - Image Acquisition
  - Machine Vision Fundamentals
  - Cameras
  - Image Acquisition Board

- **Working with Images in LabVIEW**

The IMAQ Vision libraries greatly simplify image processing. When working with images, you must allocate and manage your computer's memory resources. IMAQ Vision makes this task extremely simple, taking away the complicated syntax by using Image VIs. Topics include:

  - Managing IMAQ Library and Image Resources
  - Read & Write Image Files
  - Memory Consideration

- **Image Analysis**

When dealing with images, 256 grayscales often make for too much complexity, and you would like to simplify the image to be only black and white. Thresholding is the act of defining which values will constitute the objects (white), and which values will constitute the background (black). Histographs give important information about the image's pixel values, which you can use to help decide on your threshold values. Topics include:

  - Using Image Histogram and Threshold
  - Performing Blob analysis and Morphology

- **Enhancing and Filtering Images**

In this lesson, you will learn a new set of algorithms (distinct from morphological functions) that allow you to filter and enhance grayscale images. Topics include:

  - Performing Linear and Boolean arithmetic operations on Images
  - Using Linear Spatial Filters or Convolution Filters
  - Using Non-Linear Filters

- **Processing Color Images**

This module gives an overview of color images and how to process them using IMAQ Vision. Topics include:

  - Color Representation and Color Space Models
  - Color Byte Encoding
  - Histogram and Equalization of Color Images
  - Thresholding a Color Image

- **Matching Patterns and Shapes in Images**

In this lesson, you will learn the differences between binary shape matching and pattern matching. You will also learn how to develop an application for binary shape matching and grayscale pattern matching. Topics include:

  - Binary shape matching
  - Grayscale Pattern Matching
  - Applications od Pattern Matching

Training on Graphical Programming

Course Outline:

This course gives the chance to explore the LabVIEW environment, dataflow programming, and common LabVIEW development techniques in a hands-on format. In this course, the participants will learn to develop offline data-logging and measurement analysis applications. At the end of the course, participants will be able to create applications using the state machine design pattern to simulate, process, display, store offline data and also perform various analysis to the stored data. It also thoroughly teaches to use common design patterns to successfully implement and distribute LabVIEW applications for research, engineering, and testing environments. Topics to be covered include programmatic control of the user interface, techniques to optimize reuse of existing code, use of file I/O functions, and tools to create executable files and installers. This course directly links LabVIEW functionality to user's application needs and provides a jump-start for application development.

- **Navigating LabVIEW**

  This lesson introduces the LabVIEW environment. In this lesson, you will build a LabVIEW application that enables you to fully explore the environment and that acquires, analyzes and presents data. Topics include:
  - The LabVIEW environment including windows, menus, and tools
  - The LabVIEW front panel and block diagram
  - Creating and using LabVIEW projects
  - Understanding the dataflow programming model of LabVIEW
  - Searching for Controls, VIs, and functions

- **Trouble Shooting and Debugging Vis**

  This lesson teaches various debugging and error-checking techniques in LabVIEW to identify problems with block diagram organization or with data passing between different points in the block diagram. Topics include:
  - Using the LabVIEW help features include the Context Help, the LabVIEW Help
  - Correcting broken Vis
  - Using common debugging techniques
  - Addressing undefined or unexpected data
  - Implementing error checking and error handling

- **Implementing a VI**

  This lesson teaches how to implement code in LabVIEW to meet project requirements. Topics include:
  - Designing a user interface (LabVIEW front panel)
  - Choosing data types and displaying data as a plot
  - Using structures like the While loops and For loops
  - Adding software timing to your code
  - Making decisions in your code using case structures
  - Documenting your code

- **Managing Resources**

  This lesson teaches how to store data, implement a basic using the File IO APIs, and performing File IO operation on ASCII and Binary file formats. Topics include:
  - An introduction to different file formats
  - File I/O functions available in LabVIEW
  - Implementing ASCII File I/O functions to read and write data to files
  - Programming with Binary File IO's

- **Developing Modular Applications**

  This lesson introduces modular programming in LabVIEW. In LabVIEW, when a VI is used within another VI, it is called a SubVI. You will learn how to build the icon and connector pane of a VI so that it can be used as a SubVI. Topics include:
  - Basics of modular programming
  - Creating an icon and connector pane
  - Using a VI as a SubVI
  - Creating SubVI from an existing VI

- **Common Design Techniques and Patterns**

  This lesson introduces common LabVIEW design techniques and the state machine design pattern. Topics include:

- Sequential programming
- State programming
- State machine design pattern

- **Using Variables**

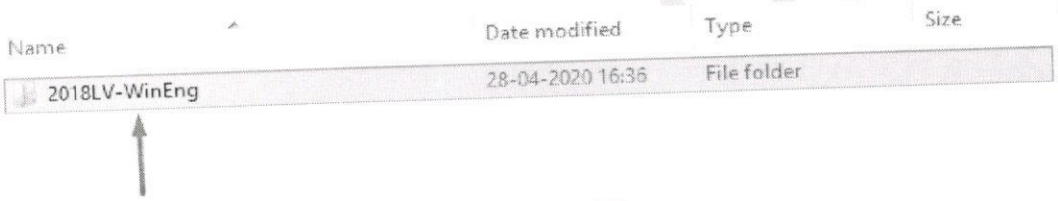
  This lesson explains how to use variables to transfer data among multiple loops and Vis. You will also learn about the programming uses involved when using variables and how to overcome these challenges. Topics include:
  - Using local, global and single process shared variables
  - Implementing functional global variables
  - Identifying and controlling race conditions – semaphores

Instructions to Install NI LabVIEW 2018

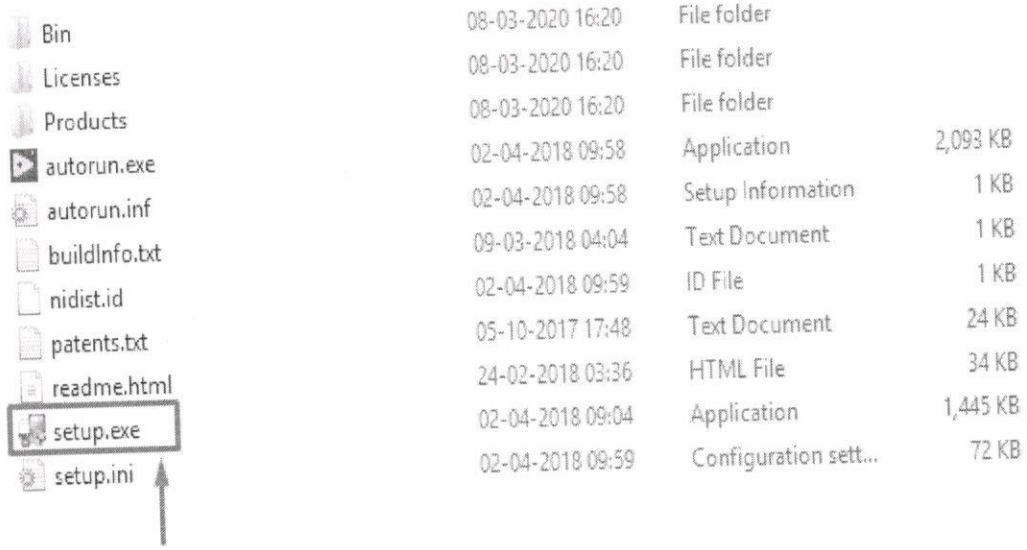
Step 01: Download LabVIEW 2018 setup file using the below link.

ftp://ftp.ni.com/evaluation/labview/ekit/other/downloader/2018LV-WinEng.exe

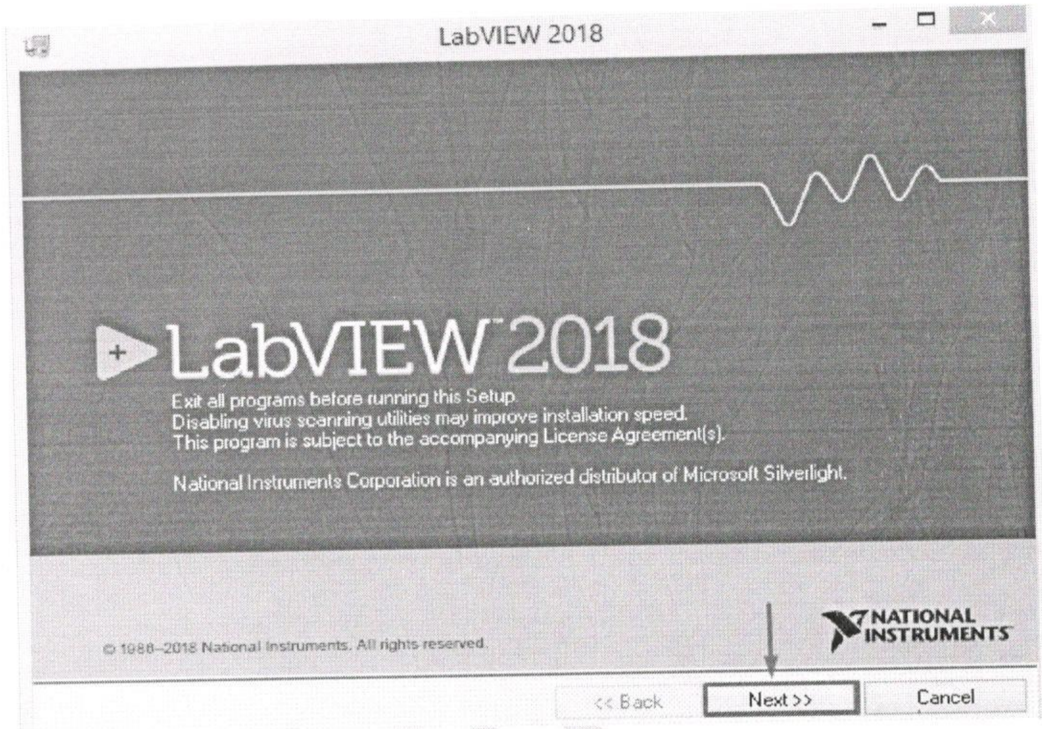
Step 02: Open the downloaded **2018LV-WinEng.exe** file.



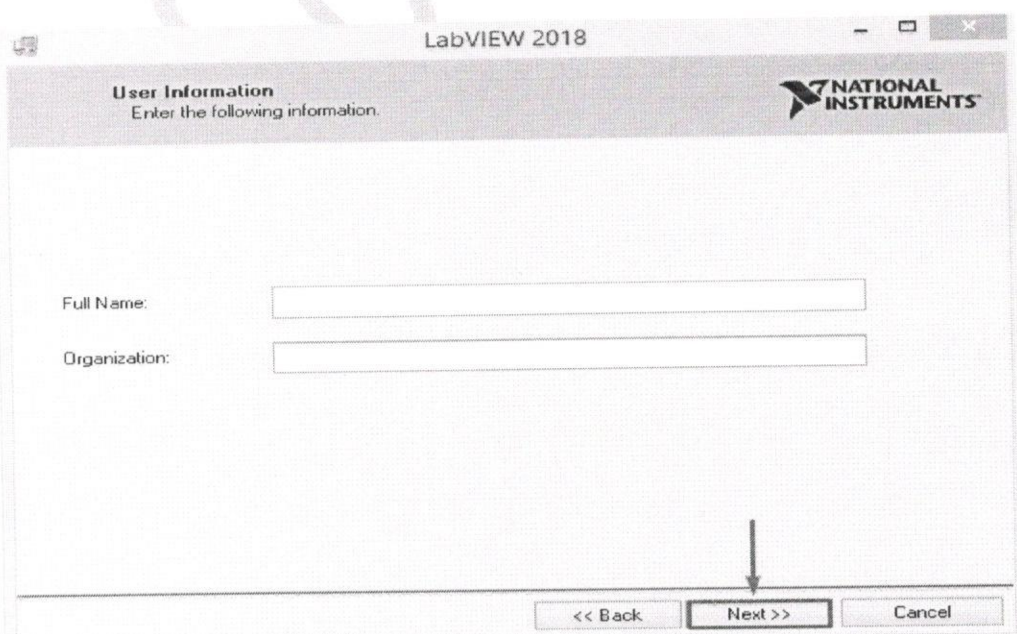
Step 03: Run the **setup.exe**



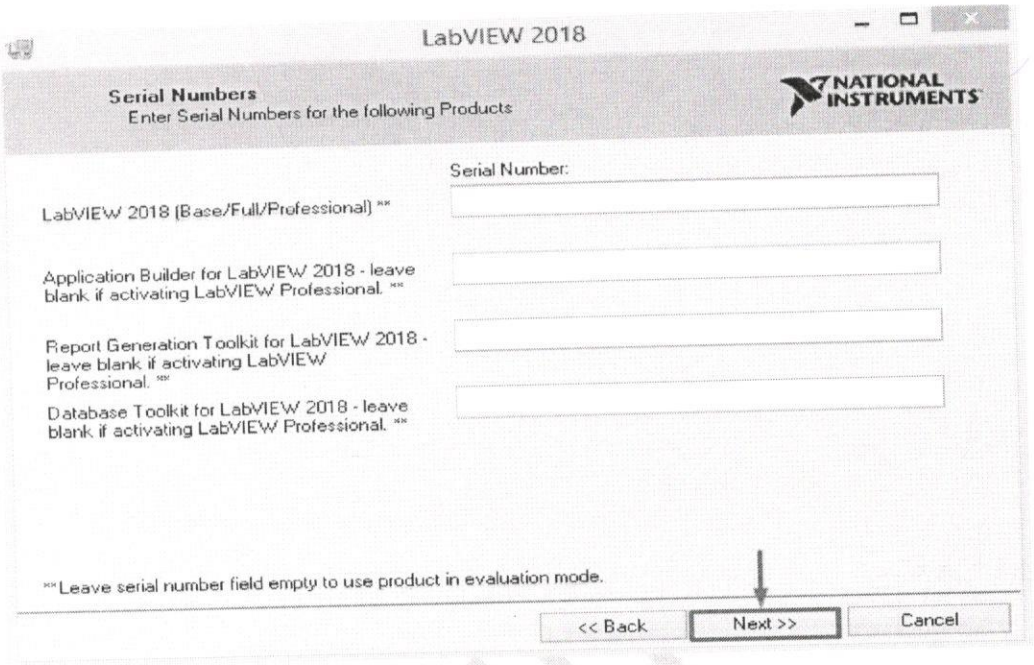
Step 04: Click Next Button when it is available.



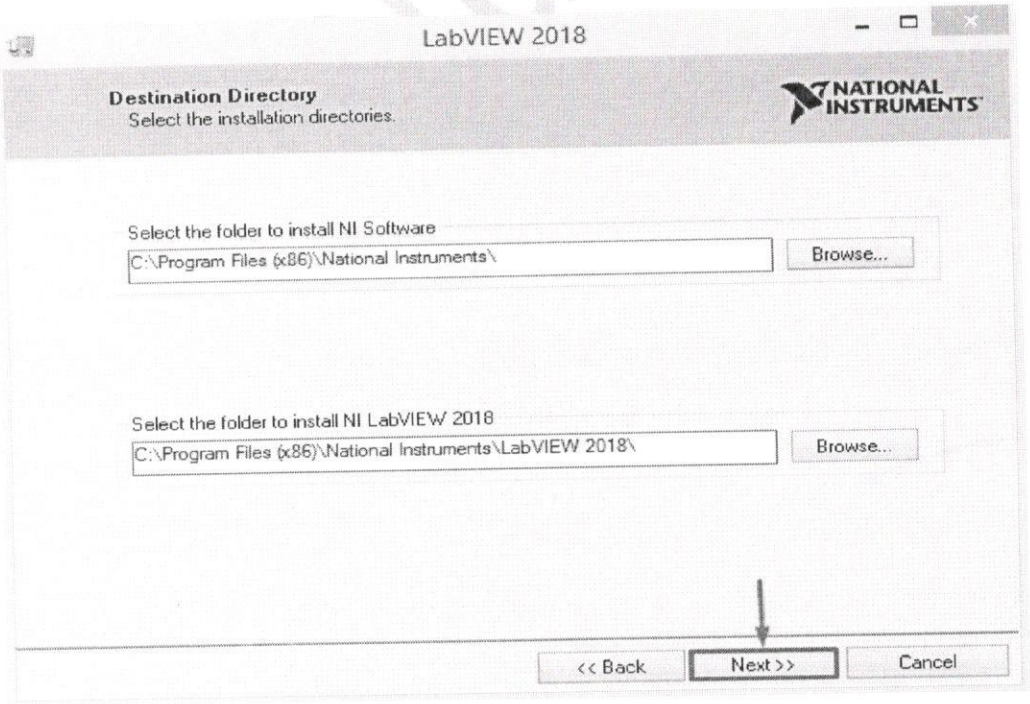
Step 05: Enter your name & Organization details and click Next.



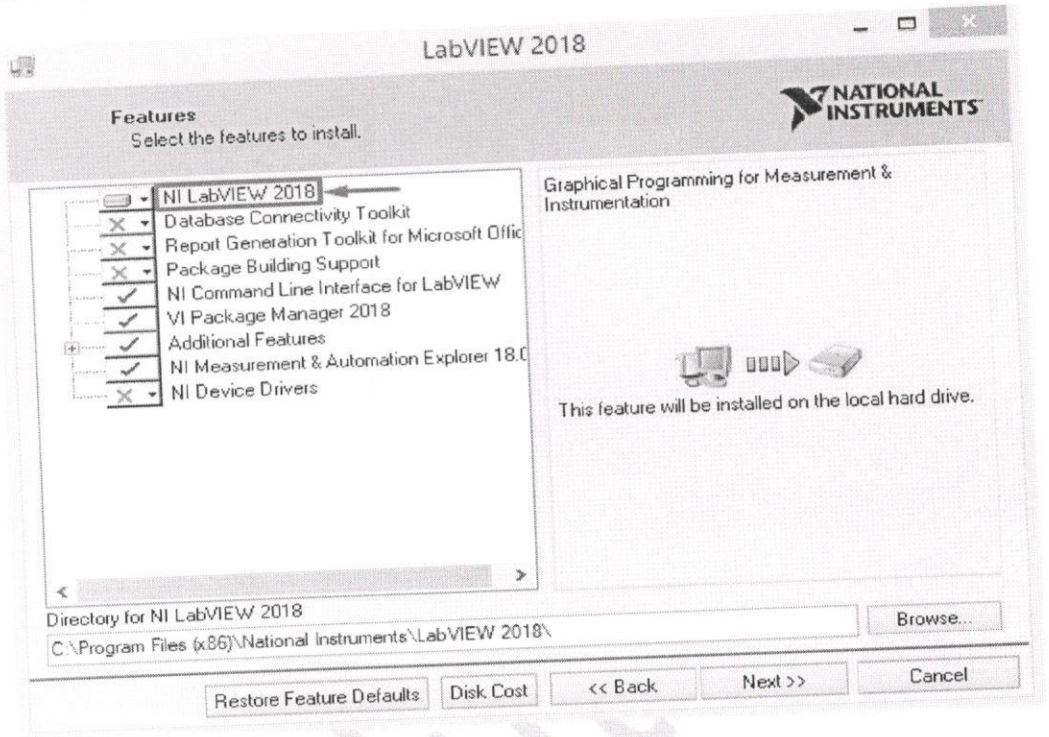
Step 06: Leave the serial number empty to use LabVIEW 2018 in evaluation mode.



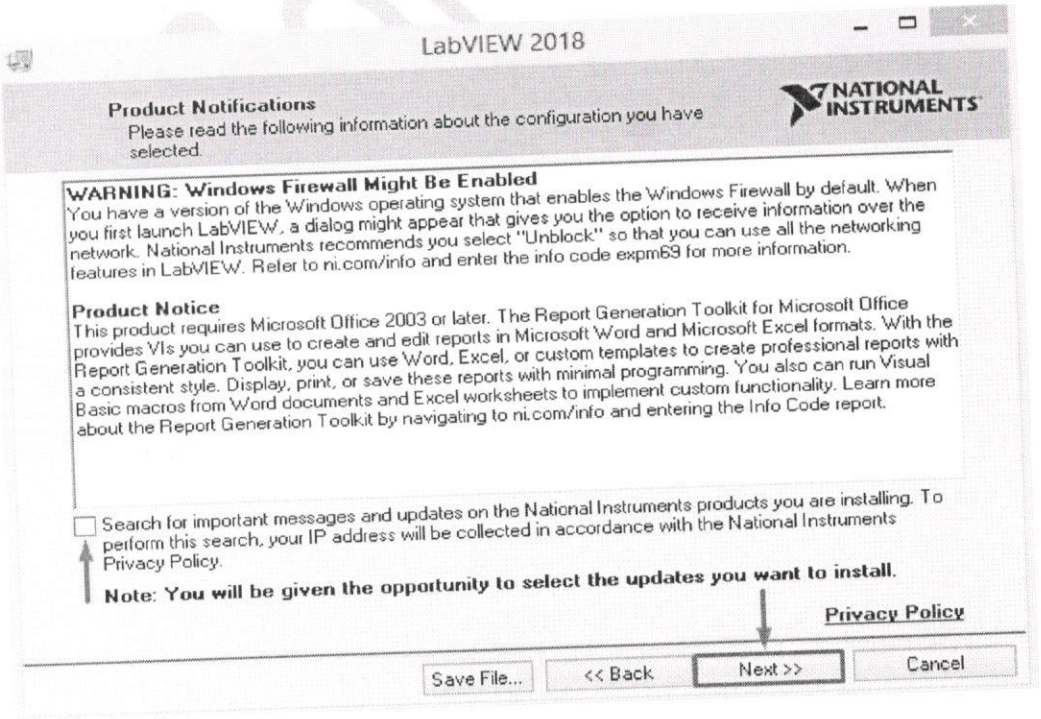
Step 07: Select the folder to install NI LabVIEW 2018 & click Next.



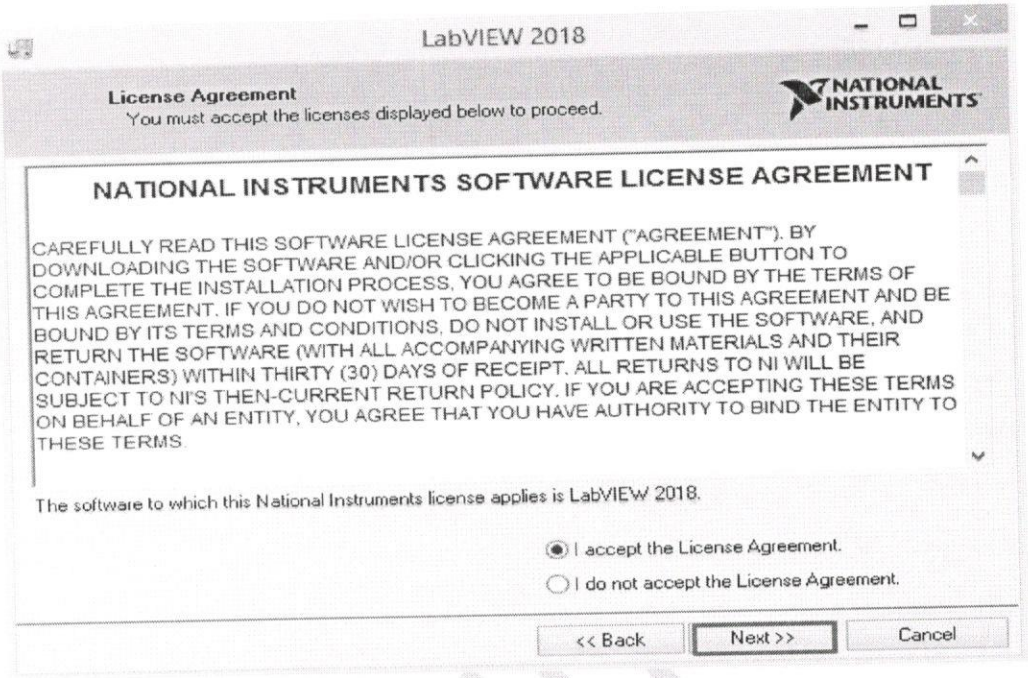
Step 08: Select the required features to Install



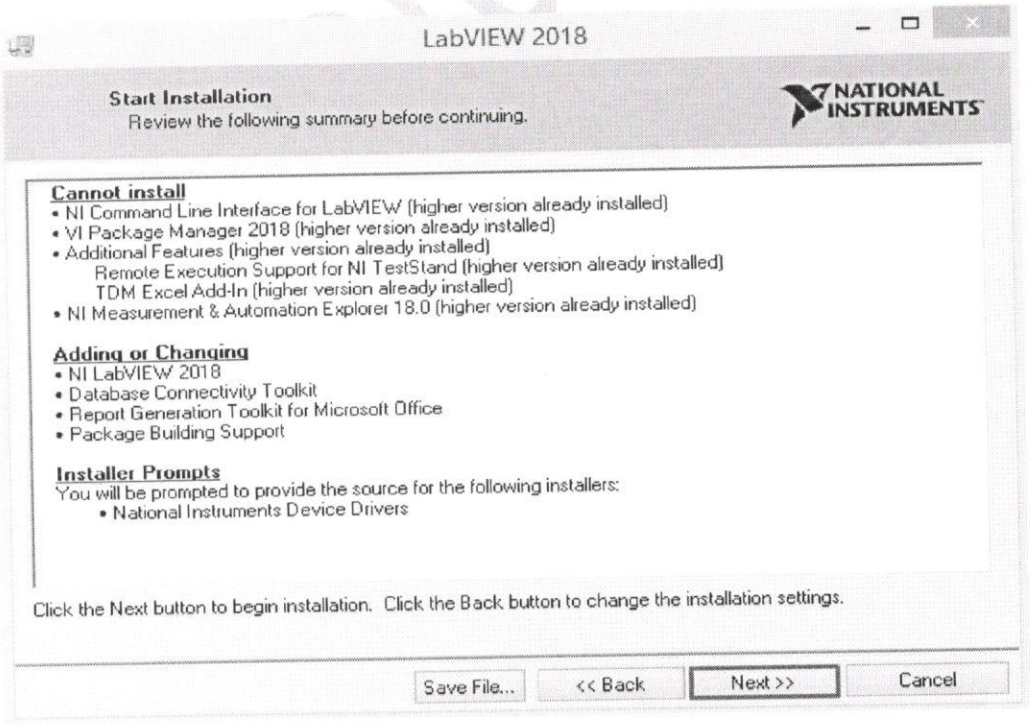
Step 09: Uncheck the "search for important messages & updates" & click Next.



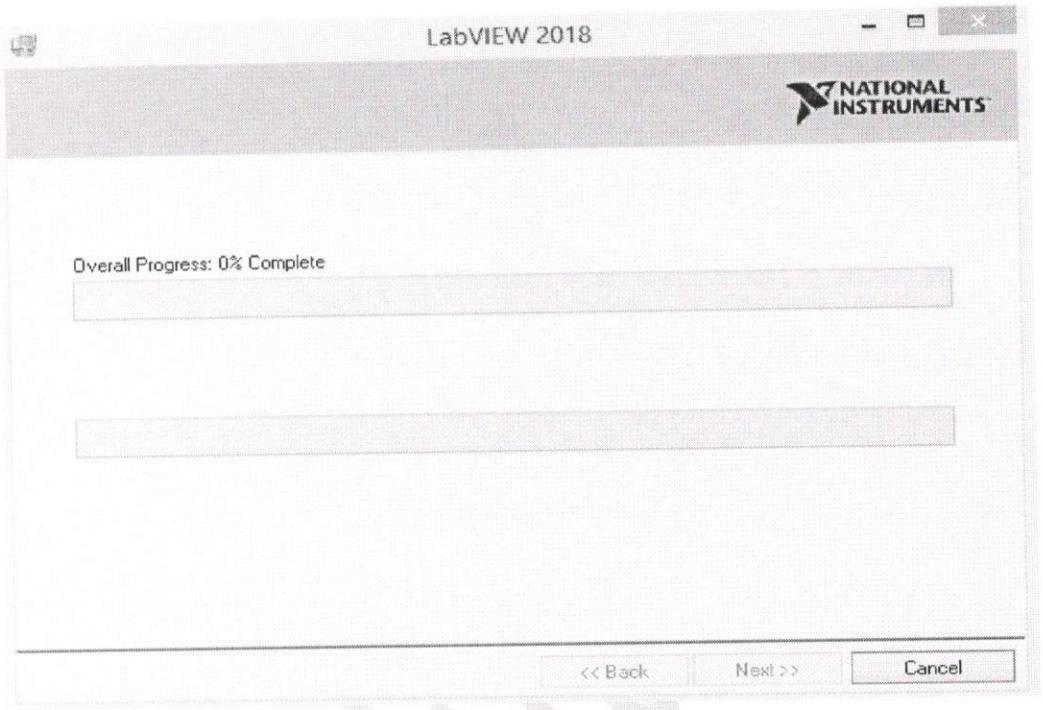
Step 10: Select the "I accept the License Agreement" & click Next.



Step 11: Review the summary & click the Next button to begin Installation.



Step 12: The LabVIEW Installation will be started and the progress is displayed.



Step 13: Once after the Installation gets completed, restart the system.

Step 14: Search for LabVIEW 2018 in Applications & Launch the Application.

(Once the Application is opened, you will be asked to select any one of the below options)

1. **Evaluate** 2. **Activate** 3. **Purchase**

Select **Evaluate** and the click **"No"** to get the getting started splash screen of LabVIEW.

Step 15: Now your LabVIEW software is ready to be programmed.

Note: The software is in evaluation mode and it will be last for 7 days from the day of Installation.

Please refer the "Instructions to extend the LabVIEW evaluation period" document to extend it for another 45 days.

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SMVITM

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

EVALUATION OF INTERNSBY SUPERVISOR

Supervisor's Name: SATYANARAYAN R

Designation: Senior Applications Engineer

Company Name: VI SOLUTIONS

Address: # 22, 2nd Floor, Akai Plaza, D Rajagopal Road, opp. to Axis Bank, Sanjaynagar, Bengaluru, Karnataka 560094

Internship dates: From 1st Sep 2022 to 30rd Sep 2022

Please evaluate each intern by entering numbers from 1 to 4 for each parameter.
1 = Needs improvement. 2 = Satisfactory 3 = Good 4 = Excellent

SN	Name of the intern	Behavior of intern	Punctuality	Interest in work	Ability to analyze problems	Initiative in work	Creativity/originality	Acceptance of responsibility	Use of technical knowledge and expertise	Professional attitude	Cooperation with supervisor & co-workers	Overall Performance
1	ADITYA BHAT	4	4	3	3	3	3	4	3	4	4	4
2	CHAITHRA KULAL	4	4	4	3	3	3	4	3	4	4	4
3	CHAYA NAIK	4	4	3	3	3	3	4	3	4	4	3
4	DEEPA NAYAK	4	3	3	3	3	4	4	3	4	4	3
5	DHEEKSHA A SUVARNA	4	4	3	3	3	3	3	3	4	4	3
6	DHEERAJ	4	4	4	4	4	4	4	4	4	4	4
7	DIVYASHREE	4	4	3	3	3	3	4	3	4	4	3
8	MANTHANA K	3	2	2	2	3	3	3	2	3	2	2
9	MEGHANA BAPAT K	4	4	4	3	3	3	4	3	4	4	4
10	MEGHANA R BHAT	4	4	4	3	3	3	4	3	4	4	4
11	NEEMA B SHETTY	4	4	4	3	3	3	4	3	4	4	4
12	PRATHEEKSHA	4	4	3	3	3	3	4	3	4	4	3
13	RACHANA	4	4	3	3	3	3	4	4	4	4	4
14	RASHMITHA BHAT	4	3	3	3	3	4	4	4	4	4	4
15	RUHAIMA	4	3	3	3	3	4	4	3	4	3	3
16	SAMEEKSHA	4	3	3	3	3	4	4	3	4	3	3
17	SAMEEKSHA P U	4	4	4	4	4	4	4	4	4	4	4

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18	SHARANYA (U UDAYA)	4	4	4	3	4	4	4	4	4	4	4
19	SHARANYA (SANTOSH)	4	4	3	3	3	3	4	3	4	4	3
20	SHETTY NITHIN VIJAY	3	2	2	2	3	3	3	2	3	2	2
21	SHRAVAN S	3	2	2	2	3	3	3	2	3	2	2
22	SHREESHA S AITHAL	3	2	2	2	3	3	3	2	3	2	2
23	SHREYA	4	4	3	3	3	3	4	3	4	4	3
24	SHREYA DEVADIGA	4	4	3	3	3	3	4	3	4	4	3
25	SHREYAS ACHARYA	4	4	3	3	3	3	4	3	4	4	3
26	SHRIKRISHNA BHAT	4	4	3	3	3	3	4	3	4	4	3
27	SHRINIKETH	4	4	3	3	3	3	4	3	4	4	3
28	SINCHANA	4	4	3	3	3	3	4	3	4	4	3
29	SOUJANYA S	4	4	3	3	4	4	4	4	3	4	4
30	SRIJANYA	4	4	3	3	3	4	4	4	4	4	4
31	SUDEEP	4	4	4	4	4	4	4	4	4	4	4
32	VARALAKSHMI	4	4	4	4	4	4	4	4	4	4	4
33	VARSHINI ACHARYA	4	4	4	4	4	4	4	4	4	4	4
34	SUJAN	4	4	4	4	4	4	4	4	4	4	4
35	KARTHIK N	4	4	3	3	3	4	4	4	4	4	4

Additional comments, if any: Keep Practicing to get hold on tool.

Place: Bengaluru

Date: 30/09/2022

Signature of Internship Supervisor

Principal
SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwothama Nagar, Udupi Dist.
BANTAKAL - 574115

SN	PARTICIPANT NAME	SEM	MAIL ID	CONTACT #
1	ADITYA BHAT	7	adithya.19ec003@sode-edu.in	9482821429
2	CHAITHRA KULAL	7	chaithra.19ec010@sode-edu.in	9731464951
3	CHAYA NAIK	7	chaya.19ec012@sode-edu.in	9632096817
4	DEEPA NAYAK	7	deepa.19ec013@sode-edu.in,	9108720173
5	DHEEKSHA A SUVARNA	7	dheeksha.19ec014@sode-edu.in,	9945746503
6	DHEERAJ	7	dheeraj.19ec015@sode-edu.in	9481517994
7	DIVYASHREE	7	divyashree.19ec017@sode-edu.in,	8088759564
8	MANTHANA K	7	manthana.19ec027@sode-edu.in,	8105311980
9	MEGHANA BAPAT K	7	meghana.19ec028@sode-edu.in,	8296771185
10	MEGHANA R BHAT	7	meghana.19ec029@sode-edu.in,	9148203817
11	NEEMA B SHETTY	7	neema.19ec031@sode-edu.in,	9686375041
12	PRATHEEKSHA	7	pratheeksha.19ec038@sode-edu.in,	9632129905
13	RACHANA	7	rachana.19ec040@sode-edu.in,	8277059164
14	RASHMITHA BHAT	7	rashmitha.19ec044@sode-edu.in,	9482447909
15	RUHAIMA	7	ruhaima.19ec046@sode-edu.in,	9844903117
16	SAMEEKSHA	7	sameeksha.19ec048@sode-edu.in,	9663028030
17	SAMEEKSHA P U	7	sameeksha.19ec049@sode-edu.in,	9482125436
18	SHARANYA (U UDAYA)	7	sharanya.19ec052@sode-edu.in	7899031675
19	SHARANYA (SANTOSH)	7	sharanya.19ec053@sode-edu.in,	8088375609
20	SHETTY NITHIN VIJAY	7	nithin.19ec054@sode-edu.in,	9482765780
21	SHRAVAN S	7	shravan.19ec055@sode-edu.in,	9380568092
22	SHREESHA S AITHAL	7	shreesha.19ec057@sode-edu.in,	9482013610
23	SHREYA	7	shreya.19ec059@sode-edu.in,	7483138974
24	SHREYA DEVADIGA	7	shreya.19ec060@sode-edu.in,	6366273455
25	SHREYAS ACHARYA	7	shreyas.19ec063@sode-edu.in,	9353419576
26	SHRIKRISHNA BHAT	7	shrikrishna.19ec065@sode-edu.in,	8431525499
27	SHRINIKETH	7	shriniketh.19ec066@sode-edu.in,	9148612367
28	SINCHANA	7	sinchana.19ec070@sode-edu.in,	8105025191
29	SOUJANYA S	7	soujanya.19ec072@sode-edu.in,	9632004331
30	SRIJANYA	7	srijanya.19ec074@sode-edu.in,	7795292407
31	SUDEEP	7	sudeep.19ec076@sode-edu.in	9686250082
32	VARALAKSHMI	7	varalakshmi.19ec084@sode-edu.in,	7411190401
33	VARSHINI ACHARYA	7	varshini.19ec085@sode-edu.in,	7899492478
34	SUJAN	7	sujan.20ec400@sode-edu.in	7892798917
35	KARTHIK	7	karthik.19ec023@sode-edu.in	9483734056

Principal
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INSTITUTE OF TECHNOLOGY & MANAGEMENT
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BANTAKAL - 574 115

VI SOLUTIONS

CERTIFICATE OF COMPLETION

On

Industrial Internship Program on IoT, Machine Learning Using LabVIEW

We present this certificate to

SHRIKRISHNA BHAT

From Shri Madhwa Vadiraja Institute of Technology & Management, Bantakal

In appreciation for your successful work as intern at ***VI Solutions, Bangalore,***
From ***1st September 2022*** *to* ***30th September 2022***

Mr. Sunil Kumar V
Managing Director
VI Solutions, Bangalore

Principal
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Mr. Sunil Kumar V
Managing Director
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