



# **SATHYABAMA**

**INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)**

**Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE**

**[www.sathyabama.ac.in](http://www.sathyabama.ac.in)**

## **SCHOOL OF ELECTRICAL AND ELECTRONICS**

### **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

#### **1.3.3 VALUE ADDED COURSES 2022-2023**

| <b>S. No.</b> | <b>Title</b>                    | <b>Dates</b>                   | <b>No. of students enrolled</b> | <b>No. of students completed</b> | <b>Page No.</b> |
|---------------|---------------------------------|--------------------------------|---------------------------------|----------------------------------|-----------------|
| 1             | LabVIEW Core1 & Core 2 Training | 27.6.2022<br>to<br>2.7.2022    | 75                              | 75                               | 3               |
| 2             | LabVIEW Programming Using myDAQ | 22.8.2022<br>to<br>27.8.2022   | 75                              | 75                               | 8               |
| 3             | LabVIEW Programming Using myDAQ | 12.9.2022<br>to<br>19.9.2022   | 75                              | 75                               | 12              |
| 4             | Mastering C                     | 29.8.2022<br>to<br>20.9.2022   | 120                             | 120                              | 18              |
| 5             | Mastering C                     | 3.10.2022<br>to<br>7.11.2022   | 120                             | 120                              | 21              |
| 6             | Mastering C                     | 17.11.2022<br>to<br>20.12.2022 | 120                             | 120                              | 26              |
| 7             | Mastering C                     | 2.1.2023<br>to<br>5.2.2023     | 120                             | 120                              | 31              |
| 8             | Communication Using LABVIEW     | 02.02.23                       | 75                              | 75                               | 36              |

|    |                                                                |                              |     |     |    |
|----|----------------------------------------------------------------|------------------------------|-----|-----|----|
| 9  | Physical Custom IC Design                                      | 04.1.2023<br>to<br>31.01.23  | 100 | 100 | 42 |
| 10 | Physical Custom IC Design                                      | 06.02.23<br>to<br>04.03.23   | 100 | 100 | 49 |
| 11 | Physical Custom IC Design                                      | 06.03.23<br>to<br>31.03.23   | 100 | 100 | 55 |
| 12 | Experimental Learning of Data Structures through C Programming | 13.03.23<br>to<br>18.03.23   | 130 | 130 | 61 |
| 13 | Experimental Learning of Data Structures through C Programming | 20.03.23<br>to<br>25.03.23   | 150 | 150 | 67 |
| 14 | Experimental Learning of Data Structures through C Programming | 27.03.2023<br>To<br>01.04.23 | 130 | 130 | 71 |

# 1. LabVIEW Core1 & Core 2 Training



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LabVIEW

**SCHOOL OF ELECTRICAL AND ELECTRONICS**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**  
**ENGINEERING**

organizes Value Added Program on

## LABVIEW CORE 1 & CORE 2 TRAINING

### Program Highlights

- Students will learn from basic to intermediate Application Development
- Students will be able to do their mini projects on their own
- Students will gain great ideas about how to crack NI GLOBAL Certification
- Students will learn about industrial requirements from engineering students

**27.06.2022 to 02.07.2022**



### Resource Person

**Mr. G. Anish Kumar**  
Director, Aadhyaa Skills  
Research & Development

**DAY 1**  
• Introduction to GSD  
• Introduce LabVIEW environment  
• Data Types  
• Boolean  
• Strings

**DAY 2**  
• Loops  
• For Loop  
• Feedback Node  
• Shift Register  
• While Loop  
• Case Structure

**DAY 3**  
• Arrays  
• Common Arrays  
• Functions  
• Clusters  
• Sub VI

**DAY 4**  
• Graphs & Charts  
• Variables  
• File I/O  
• Sequence Structure  
• Dialog & User Interface

**DAY 5**  
• Enumerated Data type  
• Type Definition  
• Property Node  
• Invoke Node  
• State Machine  
• Event Structure

**DAY 6**  
• Introduction to myDAC & NI h/w  
• Introduction to NI CLD & CLAD Certification  
• Scope of NI LabVIEW in industries

### Patrons

#### Conveners

Dr. N. M. Nandhitha, Dean, SoEE  
Dr. T. Ravi, HoD, ECE

#### Organizers

Dr. V. Vijaya Baskar, Professor  
Dr. R. Narmadha, Assoc. Professor

#### Coordinators

Dr. M. S. Godwin Premi, Professor  
Dr. A. Aranganathan, Assoc. Professor

#### Dr. T. Sasipraba

Vice Chancellor

#### Dr. E. Logashanmugam

Pro Vice Chancellor

#### Dr. S. S. Rao

Registrar

#### Dr. B. Igini Sabasti Prabu

Controller of Examinations

#### Dr. B. Sheela Rani

Director Research

#### Dr. G. Sundari

Director Administration

### Chief Patrons

#### Dr. Mariazeena Johnson

Chancellor

#### Dr. Marie Johnson

President

#### Mr. J. Arul Selvan

Vice President

#### Mrs. Maria Bernadette Tamilarasi

Vice President

#### Ms. Maria Catherine Jayapriya

Vice President

**Course Outcome:**

This course teaches how to use common design patterns to successfully implement and distribute LabVIEW applications for research, engineering, and testing. Useful to design stand-alone applications.

**List of Participants**

| SL.NO | ROLL. NO  | NAME OF THE STUDENT              |
|-------|-----------|----------------------------------|
| 1     | 20S135176 | ADEEBA FAIZ                      |
| 2     | 20S135169 | ADITYA KAUSHAL                   |
| 3     | 20S135122 | K.AGILAN                         |
| 4     | 20S135086 | AJAY DEV                         |
| 5     | 20S139021 | AJITHA V                         |
| 6     | 20S135023 | AKASH APPADURAI                  |
| 7     | 20S135072 | AKHILESH KATARI                  |
| 8     | 20S135034 | AKKALA SUBBA REDDY               |
| 9     | 20S135115 | AKSHAT ANAND                     |
| 10    | 20S135132 | ALLURI CHANDU                    |
| 11    | 20S135149 | ALLURU SRIHARI REDDY             |
| 12    | 20S135019 | ANAND.A. R                       |
| 13    | 20S135010 | ANBUSELVAN .P                    |
| 14    | 20S135124 | ANUPOJU RAM DURGA PAVANTEJ       |
| 15    | 20S135038 | APARNAA M                        |
| 16    | 20S135103 | ARAVIND. V                       |
| 17    | 20S135001 | ASHWIN SASIKUMAR                 |
| 18    | 20S135002 | ASHWINBALAJI V                   |
| 19    | 20S135130 | ATTLURI RAKESH                   |
| 20    | 20S135108 | BALANNAGARI MANIKANTESHWAR REDDY |
| 21    | 20S135131 | BALAVENI SANDEEP                 |
| 22    | 20S139023 | BARIKE SWARNAMUKHI               |
| 23    | 20S135111 | BAYYAPUREDDY HEMANTH REDDY       |
| 24    | 20S138009 | BENISHA J                        |
| 25    | 20S135021 | BHARATH. R                       |
| 26    | 20S139022 | BIRUNDHA K                       |
| 27    | 20S135042 | BODDU INDRASENA REDDY            |
| 28    | 20S139029 | BOGGARAPU VENKAT                 |

|    |           |                                |
|----|-----------|--------------------------------|
| 29 | 20S135126 | BOLLIMUNTHA ANURADHA           |
| 30 | 20S135113 | CHALLA .SURYA SAI              |
| 31 | 20S135154 | CHEDE PAVAN KUMAR              |
| 32 | 20S135129 | CHEPALA PAVANKUMAR             |
| 33 | 20S135164 | CHINTHA SREENATH               |
| 34 | 20S135127 | CHITIKILA VENU MADHAV          |
| 35 | 20S135061 | CHITTURI MUKESH                |
| 36 | 20S139049 | DABBEERU VAMSI KRISHNA         |
| 37 | 20S135163 | DAMA VENKATA KISHORE           |
| 38 | 20S139032 | DAMINENI SHALINI               |
| 39 | 20S135035 | DASARATHAN BALAJI              |
| 40 | 20S135179 | DASARIRAJU PRADEEP             |
| 41 | 20S135027 | DENDUKURI NAGA HARSHITHA       |
| 42 | 20S135069 | DESINENI SUNANDA KUMAR         |
| 43 | 20S139010 | DEVA DHARSHINI S               |
| 44 | 20S139039 | DEVADHARSHINI S                |
| 45 | 20S135039 | DEVANANDKUMAR. V               |
| 46 | 20S135175 | DHANUSH ADITHYA L              |
| 47 | 20S139018 | DHANUSRI E                     |
| 48 | 20S135031 | DHINAKARAN. S                  |
| 49 | 20S135141 | DILIBAN                        |
| 50 | 20S135133 | DIRISALA MOHITH                |
| 51 | 20S139068 | DODDIPATLA PHANINDRA           |
| 52 | 20S135036 | ELANGO VAN. A                  |
| 53 | 20S135088 | ERPA THARUN CHANDRA            |
| 54 | 20S135174 | EVANA DEEPAK NAIDU             |
| 55 | 20S139055 | FATHIMA BEGUM J                |
| 56 | 20S135148 | FREDRIC. S                     |
| 57 | 20S135142 | GADI DHANUNJAY                 |
| 58 | 20S135078 | GAIKOTI DINESH                 |
| 59 | 20S135057 | GALI THARUN DEEPAK             |
| 60 | 20S139067 | GANDROTHU VINOD KUMAR          |
| 61 | 20S135153 | GANGIREDDYGARI CHAKRAPANIREDDY |
| 62 | 20S135170 | GANTA VENKATA SREEKANTH        |
| 63 | 20S139048 | GANUGALA NEERAJA               |
| 64 | 20S135119 | GARAPATI SHANMUKHA SRINIVAS    |
| 65 | 20S139009 | GAYATHIRI R                    |
| 66 | 20S135046 | GIRITHAR.G.B                   |
| 67 | 20S135011 | GOKUL RAM.S                    |

|    |           |                                     |
|----|-----------|-------------------------------------|
| 68 | 20S135151 | GOLLA JAYA SRI VASTAV               |
| 69 | 20S135065 | GONUGUNTLA MANIKANTA                |
| 70 | 20S139001 | GOPINATH.S                          |
| 71 | 20S135171 | GRANDHI REVANTH                     |
| 72 | 20S135155 | GUDDITI TEJA                        |
| 73 | 20S135156 | GUDDITI TEJESH                      |
| 74 | 20S135085 | GUNASEKARAN K                       |
| 75 | 20S139064 | GUTTULA REVATH VEERA VENKATA GIRISH |





## 2. LabVIEW Programming Using MYDAQ



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LabVIEW

### SCHOOL OF ELECTRICAL AND ELECTRONICS DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

organizes Value Added Program on

## LABVIEW PROGRAMMING USING MYDAQ

### Program Highlights

- Students will learn from basic to intermediate Application Development
- Students will be able to do their mini projects on their own
- Students will gain great ideas about how to crack NI GLOBAL Certification
- Students will learn about industrial requirements

**22.08.2022 to 27.08.2022**



### Resource Person

**Mr. G. Anish Kumar**  
Director, Aadhyaa Skills  
Research & Development

**DAY 1**  
• Introduction  
• MXP and MSP  
Connector Diagrams  
• myDAQ, myRIO  
connections and  
configurations

**DAY 2**  
• myDAQ, MyRIO  
testing  
• Onboard sensor  
programming  
• Mini project  
development using  
onboard sensors

**DAY 3**  
• myDAQ, myRIO  
Sensor interfacing  
• Introduction to  
Database  
• Acquiring real time  
signal from sensors &  
data logging into  
excel sheet

**DAY 4**  
• Introduction to IIOT  
• IIOT- using myRIO  
• Cloud  
communication  
through Thingspeak  
• Introduction to  
wireless commun.

**DAY 5**  
• Build a Stand-Alone  
Application  
• WIFI configuration  
with myRIO  
• Basic FPGA  
programming using  
myRIO

**DAY 6**  
Major Projects  
• Weather Station  
• Smart Car parking  
• Smart irrigation  
system  
• Color Detection  
robot

### Patrons

#### Conveners

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#### Dr. T. Sasipraba

Vice Chancellor

#### Dr. E. Logashanmugam

Pro Vice Chancellor

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#### Dr. Marie Johnson

President

#### Mr. J. Arul Selvan

Vice President

#### Mrs. Maria Bernadette Tamilarasi

Vice President

#### Ms. Maria Catherine Jayapriya

Vice President

**Course Outcome:**

Building on information taught in LabVIEW, Data Acquisition and Signal Conditioning training teaches the fundamentals of PC-based data acquisition and signal conditioning. Students learn how to perform different types of acquisition and to identify the correct sensor for their measurements. Students also discuss signal conditioning fundamentals and install and configure hardware in classroom-based courses

**List of Participants**

| SL.NO | ROLL NO   | NAME OF THE STUDENT                |
|-------|-----------|------------------------------------|
| 1     | 21S135235 | AATHIF AHAMED                      |
| 2     | 21S135034 | ABBURI BHARATH SASANK CHOWDARY     |
| 3     | 21S131019 | ABDUL RAHMAN A                     |
| 4     | 21S135320 | ABHINAYA S                         |
| 5     | 21S135212 | ABHISHEK D                         |
| 6     | 21S135490 | ABINESHWARAN A                     |
| 7     | 21S135497 | ABISHEK R                          |
| 8     | 21S135078 | ABISHEK RAJAN S                    |
| 9     | 21s135440 | ACHANTA PARDHA SAI YESU            |
| 10    | 21S135313 | ADIGOPPULA NIKITH KUMAR            |
| 11    | 21S135094 | ADITHYA HARIPRASAD                 |
| 12    | 21s135412 | ADURI NEERAJ TANAI PUSHKAR KARTHIK |
| 13    | 21S135153 | AJAY R                             |
| 14    | 21S135255 | V AJITH                            |
| 15    | 21S135166 | AKHILESH CH                        |
| 16    | 21S135216 | AKSHAYA SRI SARAVANAN              |
| 17    | 21S135046 | AKSHAYA V S                        |
| 18    | 21S135149 | AKULA KISHORE                      |
| 19    | 21S135377 | ALLIMILLI DEVI NAGA SAI            |
| 20    | 21S135459 | AMBATI KAVYA DEVI                  |
| 21    | 21S135232 | AMBATI SAIKRISHNA                  |
| 22    | 21S135264 | AMULDALAPALLI SAI ROHITH           |
| 23    | 21S135493 | ANAMDASU UDAY SAI KUMAR            |
| 24    | 21S135325 | ANAZ M F                           |
| 25    | 21S131004 | ANDREW RABIN D                     |
| 26    | 21S135411 | ANEBOINA JAGAN                     |
| 27    | 21s135419 | ANGA SOLOMON YUVRAJ                |
| 28    | 21S135425 | ANGANI HAJITH KUMAR                |
| 29    | 21S135270 | ANIPALLI CHARMIKA                  |
| 30    | 21S138002 | ANLET RUFITTA A                    |

|    |           |                                    |
|----|-----------|------------------------------------|
| 31 | 21S135123 | ANSHIKA ANAND                      |
| 32 | 21S135380 | ARAVA PURNA SAI                    |
| 33 | 21S135075 | ARAVIND R S                        |
| 34 | 21S135458 | ARI SUBRAMANYAM                    |
| 35 | 21S135114 | ARJUN B                            |
| 36 | 21S135052 | B ARJUN K C                        |
| 37 | 21S135068 | ARJUN S                            |
| 38 | 21S138003 | AROKIA ASHIK X                     |
| 39 | 21S135263 | ARPUDHAVALLI R S                   |
| 40 | 21S135005 | ASHUTOSH MISHRA                    |
| 41 | 21S135170 | ATCHAMSETTI OM SAI PRAKASH         |
| 42 | 21S135192 | ATHUL AJITH                        |
| 43 | 21S135243 | ATTE HARSHAVARDHAN                 |
| 44 | 21S139006 | ATTULURI LAKSHMI PRASANNA          |
| 45 | 21S135058 | AVADHANAM HARSHITHA                |
| 46 | 21S135136 | AVINASH R                          |
| 47 | 21S135522 | BACHINA VENU BABU                  |
| 48 | 21S139007 | BALA SUBINGA K                     |
| 49 | 21S135267 | BALAGANAPATHY M                    |
| 50 | 21S135109 | BALAJI A M                         |
| 51 | 21S135517 | BALGURI VAMSHI RAO                 |
| 52 | 21S135191 | BALLA RUDRA GANAPATHI RAJA         |
| 53 | 21S135147 | BAPIREDDY SAHITHI                  |
| 54 | 21S135339 | BARATH RAM R                       |
| 55 | 21S135378 | BATTAPATI RAMBABU                  |
| 56 | 21S135257 | BATTAPOTHULA PRABHAKAR             |
| 57 | 21S135092 | BATTULA TEJASWI                    |
| 58 | 21S135283 | BEERAM VENKATA SUDHEER KUMAR REDDY |
| 59 | 21S135236 | BEJAWADA VENKATA SAI DINESH KUMAR  |
| 60 | 21S135082 | BENJAMIN CHEMDAH RAJKUMAR          |
| 61 | 21S135176 | BENNY IMMANUEL B                   |
| 62 | 21S135550 | BETHAM.SANJEEV REDDY               |
| 63 | 21S135275 | BHARAGAVI CHODISETTI               |
| 64 | 21S139032 | BHARGAVI S                         |
| 65 | 21S135186 | BHAVADHARENI S                     |
| 66 | 21S135504 | BHAVASAKTHI S S                    |
| 67 | 21S135401 | BHUKYA SRINATH                     |
| 68 | 21S135311 | BHUMIREDDY PRATHYUSHA              |
| 69 | 21S135479 | BHUPATHIRAJU ASWIN RANJITH VARMA   |
| 70 | 21S135537 | BHUVANESWARI N                     |
| 71 | 21S135432 | BIDDALA DINESH KUMAR REDDY         |

|    |           |                         |
|----|-----------|-------------------------|
| 72 | 21S138001 | BILLGATES B             |
| 73 | 21S139008 | BIREDDY SHOWRI SANTHOSH |
| 74 | 21S139055 | K BIRUNTHA              |
| 75 | 21S139009 | BODDU ASHOK REDDY       |



### 3. LabVIEW Programming Using MYDAQ



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#### Program Highlights

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- Students will learn about industrial requirements

**12.09.2022 to 19.9.2022**



**Resource Person**  
**Mr.G.Anish Kumar**  
Director, Aadhyaa Skills  
Research & Development



#### Patrons

##### Conveners

Dr.N.M.Nandhitha, Dean, SoEE  
Dr.T.Ravi, HoD, ECE

##### Organizers

Dr.V.Vijaya Baskar, Professor  
Dr.R.Narmadha, Assoc. Professor

##### Coordinators

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##### Dr.G.Sundari

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##### Dr.Marie Johnson

President

##### Mr.J.Arul Selvan

Vice President

##### Mrs.Maria Bernadette Tamilarasi

Vice President

##### Ms.Maria Catherine Jayapriya

Vice President

**List of Participants**

| S. No. | Roll No.  | Name of the Student                          |
|--------|-----------|----------------------------------------------|
| 1      | 20S135008 | HARIPRIYA S                                  |
| 2      | 20S139025 | C.S.HARISH                                   |
| 3      | 20S135028 | HARSH TIWARI                                 |
| 4      | 20S135177 | ILA VENKATA SITHARAM                         |
| 5      | 20S135107 | INDUKURI KARTHIK VARMA                       |
| 6      | 20S135022 | ISHI GUPTA                                   |
| 7      | 20S139033 | JADHAV YUVRAJ NAGESH                         |
| 8      | 20S135138 | JALLA SOMA SUNDAR REDDY                      |
| 9      | 20S139019 | JANANI V                                     |
| 10     | 20S135084 | JAYASURYA R R                                |
| 11     | 20S135018 | JENIFER. J                                   |
| 12     | 20S138003 | JOVIE SHINOL.J.R                             |
| 13     | 20S135009 | JOVITA PERSIS                                |
| 14     | 20S135180 | JOY NIKHIL.E                                 |
| 15     | 20S139063 | KALI ANANTH NAG                              |
| 16     | 20S139062 | KALLURI RAJITHA                              |
| 17     | 20S139044 | KALYANAPU KEERTHI                            |
| 18     | 20S139003 | R.KAMALESH                                   |
| 19     | 20S135043 | KAMMATHAM SURYA KIRAN                        |
| 20     | 20S135143 | KANCHAM SAI SHARANYA                         |
| 21     | 20S139069 | KANCHANA M                                   |
| 22     | 20S135058 | KANDURI SAI NATH CHARAN                      |
| 23     | 20S135159 | KANDURI.BHARANI NAGA VENKATA GOPAL<br>NIKHIL |
| 24     | 20S139057 | KANIMOZHI S                                  |
| 25     | 20S135081 | P.KANYAA                                     |
| 26     | 20S131002 | KARRI PAVAN SAI KIRAN                        |
| 27     | 20S131003 | KARRI SURYA VENKATA SAI RAKESH               |
| 28     | 20S139041 | KARROTHU GANESH                              |
| 29     | 20S135048 | KARTHIKHA SRI. S                             |
| 30     | 20S135166 | KASAGANI PRUDHVI HARI                        |
| 31     | 20S139053 | KATAM ABHISHEK GOUD                          |
| 32     | 20S139036 | KATAM NITHIN GOUD                            |
| 33     | 20S135168 | KATTA.VEERA.VENKATA.PHANI KUMAR              |
| 34     | 20S135104 | KATTUNGA JAYARAM                             |
| 35     | 20S139040 | KAVIYAPRIYA V                                |
| 36     | 20S138005 | KERIN J                                      |

|    |           |                              |
|----|-----------|------------------------------|
| 37 | 20S135082 | P.KIRAN                      |
| 38 | 20S135032 | KISHORE KUMAR. K             |
| 39 | 20S135097 | KOLLA MADHAN                 |
| 40 | 20S131004 | KONDA RAKESWAR REDDY         |
| 41 | 20S139031 | KOSURI SAI SRUTHI            |
| 42 | 20S135079 | KRANTHI KUMAR KAREMPUDI      |
| 43 | 20S135066 | K.T.KRISHNAN                 |
| 44 | 20S139008 | KRISHNAVENI.S                |
| 45 | 20S135146 | KURUVAGANTELA HARI           |
| 46 | 20S135051 | B.KUSHAL                     |
| 47 | 20S135121 | LAKSHMI VAISHNAVI PAIDIPALLI |
| 48 | 20S138002 | LARA JENISH L                |
| 49 | 20S135052 | LAVANYA C                    |
| 50 | 20S138006 | LIJUSHA.J                    |
| 51 | 20S139070 | C.LOKESH                     |
| 52 | 20S135145 | MADDASANI VISHNU VARDHAN     |
| 53 | 20S135102 | MADDILETI SURAJ              |
| 54 | 20S135016 | MAHILA.P                     |
| 55 | 20S135110 | MALLELA VEERA DIVYA          |
| 56 | 20S135059 | MANAM LIKHITH REDDY          |
| 57 | 20S139026 | MANCHALA BHUMIKA REDDY       |
| 58 | 20S135117 | MANIKANTA MANDHATI           |
| 59 | 20S135152 | MARELLA THANOOZ KUMAR        |
| 60 | 20S135045 | MARIA ALPHONSE JEFFREY T     |
| 61 | 20S135037 | MARRI AYYAPPA CHOWDARY       |
| 62 | 20S139066 | MARY SEREN RANJANA.X         |
| 63 | 20S139002 | MOGESHWARAN B                |
| 64 | 20S135063 | MOHAMMED MUJAHID             |
| 65 | 20S139065 | MOHAMMED SHARUKH HUSSAIN     |
| 66 | 20S139017 | MOHITHAPRIYA T               |
| 67 | 20S139016 | MONISHA. M                   |
| 68 | 20S135109 | MUTTIREDDY YUVARAJ PAVAN     |
| 69 | 20S135093 | NAGA BHUSHAN                 |
| 70 | 20S135128 | NAMBURI HARSHA VARDHAN       |
| 71 | 20S135089 | NANDINI R                    |
| 72 | 20S139060 | NANDYALA PADMAJA             |
| 73 | 20S135139 | NARAGONI ABHINAY KUMAR       |
| 74 | 20S135050 | NARRA VENKATA RAMU           |
| 75 | 20S139028 | NAVEEN S                     |

# Course Completion Certificate

This is to certify that

**JANANI V**

Has attended Value Added Course offered by **Aadhyaa Skills Research & Development**,  
Chennai on **LabVIEW Programming Using myDAQ** from **12-9-2022 to 19.9.2022**  
in association with the Department of Electronics and Communication Engineering,  
Sathyabama Institute Of Science & Technology.



[4324471490BK](https://www.aadhyaa.com/4324471490BK)



G. Anish kumar  
Director  
Aadhyaa Skills Research & Development



## 4. Mastering C



**SATHYABAMA**  
**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
(Deemed to be University)

**SCHOOL OF ELECTRICAL AND ELECTRONICS**  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

organizes a certified course on

**Value Added Course on**  
**Mastering C**

**Course Contents ( 32 Hours)**

- Introduction to C Programming
- Data types and Operators
- Controls and Loops
- Functions
- Arrays
- Structures and Unions
- Pointers
- Programming Practice

**Course Outcome**

- To develop coding using C Language
- To solve real world problems

**Pre-requisite: Nil**

**Start Date** : Aug 22, 2022  
**Duration** : Monday - Friday 3.30 PM -4.30 PM  
**Venue** : Circuits and Simulation Lab,EIE 2nd Floor  
**Eligible students:** I ECE and I Aeronautical  
(Only for Hostel Students)

**CHIEF PATRONS**  
Dr. Mariazeena Johnson  
Chancellor  
Dr. Marie Johnson  
President  
Mr.J.Arul Selvam  
Vice President  
Ms.Maria Bernadette Tamilarasi  
Vice President  
Ms.Maria Catheirne Jayapriya  
Vice President  
Dr.T.Sasipraba  
Vice Chancellor

**PATRONS**  
Dr. E.Logashanmugam  
Pro Vice Chancellor  
Dr. G.Sundari  
Director - Administration

**CONVENORS**  
Dr. N.M.Nandhitha  
Prof & Dean / School of EE  
Dr. T.Ravi  
Prof & Head / ECE

**Course Co-ordinators**  
Dr.N.M.Nandhitha / ECE  
Dr.S.Poornapushpakala /ECE

**Resource Persons**  
Dr.N.M.Nandhitha / ECE  
Dr.S.Barani/ ECE  
Dr.S.Emalda Roslin / ECE  
Dr.M.Subramoniam / ECE  
Dr.V.Vedhanarayanan / ECE

Registration Link  
<https://forms.gle/vRxcALinShFXnsf6>

**Course Outcome:**

After competing this course, the students can Develop a C program, Control the sequence of the program and give logical outputs, Manage I/O operations in your C program, Understand the basics of file handling mechanisms.

**List of Participants**

| SL.NO | ROLL NO   | NAME OF THE STUDENT          |
|-------|-----------|------------------------------|
| 1     | 19S135091 | AABARANA SAKTHITHA. A        |
| 2     | 19S135089 | AADHITHYA. M. R              |
| 3     | 19S131001 | AAKASH. C                    |
| 4     | 19S135070 | ABDUL RAHMAN. S              |
| 5     | 19S135111 | ABI. S                       |
| 6     | 19S135801 | ABIJITH                      |
| 7     | 19S139002 | ABIRAMI. M                   |
| 8     | 19S135147 | ADDALA SAI NAGENDRA BABU     |
| 9     | 19S135640 | ADITHYA SRIDHAR              |
| 10    | 19S135819 | ADITYA PRAKASH               |
| 11    | 19S131002 | ADITYA SAILESH. T            |
| 12    | 19S135625 | AFTAB ALAM                   |
| 13    | 19S135001 | AGNES PRISCILLA GOPIKA. M. K |
| 14    | 19S135160 | AITHA RANADHEER              |
| 15    | 19S135002 | AKASH. P                     |
| 16    | 19S131099 | AKASH VARMA                  |
| 17    | 19S135666 | AKKILI SAIKUMAR REDDY        |
| 18    | 19S135601 | AMARANKENI UMESH CHANDRA     |
| 19    | 19S139051 | AMMI REDDY SUPRAJA           |
| 20    | 19S135003 | ANAGHA JACOB                 |
| 21    | 19S139003 | ANANDHI. S                   |
| 22    | 19S131003 | ANANTHA LAKSHMI. P           |
| 23    | 19S138002 | ANAS MAHIN DAS               |
| 24    | 19S135787 | ANEM VAMSI                   |
| 25    | 19S135004 | ANGELO ALEXANDER             |
| 26    | 19S135706 | ANISETTI MOHAN KUMAR         |
| 27    | 19S131004 | ANNAM SANTOSH KUMAR          |
| 28    | 19S135005 | ANTO KENSIYA. S              |
| 29    | 19S139004 | ANUSHA. K                    |
| 30    | 19S135631 | ANUSURI RAM NIVAS            |
| 31    | 19S131005 | APPAJOSYULA CHAITANYA        |
| 32    | 19S135652 | ARAVAPALLI DIVYA VASAVI      |
| 33    | 19S135805 | ARAVINDU. B                  |
| 34    | 19S135674 | ARIGELA SAI YASWANTH         |

|    |           |                                          |
|----|-----------|------------------------------------------|
| 35 | 19S135636 | ARISSETTY SAHIT                          |
| 36 | 19S135781 | ARRA ROHIT                               |
| 37 | 19S139032 | ARTHIESWARI. P                           |
| 38 | 19S139005 | ARUL THANGA RAJA. B                      |
| 39 | 19S135006 | ARUN KUMAR REDDY RAMIREDDY               |
| 40 | 19S139006 | ASAM SUJITHA                             |
| 41 | 19S15816  | ASHOK. B                                 |
| 42 | 19S131043 | ASODI KISHORE KUMAR REDDY                |
| 43 | 19S135800 | ATTADA SAANDEEP DORA                     |
| 44 | 19S135725 | ATTE RUSHIVARDHAN                        |
| 45 | 19S139007 | AVANTHIKA. M                             |
| 46 | 19S131006 | AVULA JAGADEESH                          |
| 47 | 19S131007 | AYSETTI VENKATA NARAYANA KARTHEEK        |
| 48 | 19S131009 | BACCHU GUNA NANDA VARDHAN                |
| 49 | 19S135151 | BADDIGAM LOKESWARREDDY                   |
| 50 | 19S135642 | BADIREDDY LOHIT SURYA SAI KRISHNAM NAIDU |
| 51 | 19S135686 | BAIREDDY VIVEK VARDHAN REDDY             |
| 52 | 19S135795 | BALIGA BHARGAV                           |
| 53 | 19S135591 | BANDARU NAGA SRI ADITYA                  |
| 54 | 19S135120 | BANDELA NAVA KISHORE                     |
| 55 | 19S131008 | BANDIGUPHAPU SUMANTH KALYAN              |
| 56 | 19S135007 | BASAVA NAGENDRA RAVI SAI                 |
| 57 | 19S135566 | BASIREDDY CHANDRA MOHAN REDDY            |
| 58 | 19S135623 | BATTU VEERANJANEYULU                     |
| 59 | 19S139008 | BEELA TULASI                             |
| 60 | 19S135077 | BEJESH SRIRAM. G                         |
| 61 | 19S135008 | BELLAM HEMANTH KUMAR REDDY               |
| 62 | 19S139009 | BELLANA GEETHA LAKSHMI                   |
| 63 | 19S135615 | BETHALADHANA RAMA VISWA NAGESWARA RAO    |
| 64 | 19S135009 | BETHAM VEERA REDDY                       |
| 65 | 19S135788 | BHARATH                                  |
| 66 | 19S135150 | BHARATH KUMAR. J                         |
| 67 | 19S139015 | BHARGAVI. G                              |
| 68 | 19S135797 | BHASKAR                                  |
| 69 | 19S131010 | BHASKAR NAIDU MUTYALA                    |
| 70 | 19S135695 | BHAVIRISETTY SAI                         |
| 71 | 19S131011 | BHUMANAPALLI NIVAS KUMAR REDDY           |
| 72 | 19S135117 | BHUVANESWARI. B                          |
| 73 | 19S135629 | BINAPUDI PUSHPAK VINAY                   |
| 74 | 19S135680 | BOBBILI SATYA REVANTH                    |

|     |           |                                     |
|-----|-----------|-------------------------------------|
| 75  | 19S135698 | BOBBURI SRI JAYALAKSHMI             |
| 76  | 19S131012 | BODDEPALLI HANISH                   |
| 77  | 19S135649 | BONAGIRI CHANDRA LEKHA              |
| 78  | 19S135825 | BOORA ADHARSH                       |
| 79  | 19S135010 | BORRA UMA KARTHIK                   |
| 80  | 19S135145 | BOSI JNANANANDA CHAKRAVARTHI        |
| 81  | 19S135806 | BUPELLI AKHIL TEJA                  |
| 82  | 19S135153 | BURRI RAMA KRISHNA REDDY            |
| 83  | 19S135639 | CHALASANI CHETAN PRASAD             |
| 84  | 19S135121 | CHALLAGULLA SAI DINESH              |
| 85  | 19S131091 | CHALLAPALLI ISWARYA                 |
| 86  | 19S131014 | CHAMAKURA SRI SATYA SAI JANARDHAN   |
| 87  | 19S139010 | CHEERLA SYAMALA                     |
| 88  | 19S135687 | CHEKURI SRINADH                     |
| 89  | 19S135711 | CHEVURI PRAVEENKUMAR                |
| 90  | 19S135622 | CHIDIPUDI AJAY KUMAR REDDY          |
| 91  | 19S131013 | CHIKKALA PRASANTH                   |
| 92  | 19S135638 | CHILUKURI DURGA MAHESH              |
| 93  | 19S135080 | CHINIMILLI SATYA SRI RAMACHANDRAYYA |
| 94  | 19S135567 | CHINNALA HRUTHIK                    |
| 95  | 19S135822 | CHINTALA GOWTHAM KAMESWARA RAO      |
| 96  | 19S131015 | CHINTHAKUNTALA VIJAY KUMAR          |
| 97  | 19S131016 | CHOPPERLA RAM NIVEDH                |
| 98  | 19S135012 | CHUNDRU KASI VISWANADHAM            |
| 99  | 19S135828 | DAGGUBATI AKHILA                    |
| 100 | 19S131017 | DANDU SHASHANK SRI SAIVARMA         |
| 101 | 19S135090 | DARSHITA. V                         |
| 102 | 19S135685 | DASARI JESWANTH SAI BRAHMESH        |
| 103 | 19S131018 | DASARI LIKHITH MADHAV               |
| 104 | 19S131019 | DASARI SRI HARSHA                   |
| 105 | 19S135013 | DEEPTHI. A                          |
| 106 | 19S135082 | DEVADHARSHINI. G                    |
| 107 | 19S135823 | DEVARAKONDA RAHUL                   |
| 108 | 19S135115 | DEVARALA VENGALARAO YADAV           |
| 109 | 19S135597 | DHACHAPALLY SHRUJAN                 |
| 110 | 19S139036 | DHANA LAKSHMI. R                    |
| 111 | 19S135113 | DHANALA VENKATESHWARLU              |
| 112 | 19S131097 | DHARUN. G                           |
| 113 | 19S135158 | DHEERAJ KUMAR                       |
| 114 | 19S135014 | DHEWESWAR. B                        |
| 115 | 19S139012 | DINESH. M                           |

|     |           |                          |
|-----|-----------|--------------------------|
| 116 | 19S139013 | DINESH. S                |
| 117 | 19S131020 | DIVESH SENTHIEL          |
| 118 | 19S135820 | DIVYA. V                 |
| 119 | 19S135565 | DODDIV VAISHNAVI         |
| 120 | 19S131021 | DRONADRI JAYA SAI PAVANI |



**SATHYABAMA**

INSTITUTE OF SCIENCE AND TECHNOLOGY



**SCHOOL OF ELECTRICAL AND ELECTRONICS**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

## Certificate of Appreciation

This is to certify that

**Mr.AVULA JAGADEESH** has successfully completed the Certified Course on Mastering C from on 29th Aug - 20th Sep 2022, Completing 32 hours of Course organized by the Department of Electronics and Communication Engineering, Sathyabama Institute of Science and Technology, Chennai.

Resource Person  
**Dr. S.Barani**  
Prof/School of EE

Coordinator  
**Dr. S.Poornapushpakala**  
Prof/School of EE

Coordinator  
**Dr. N. M. Nandhitha**  
Dean/School of EE



## 5. Mastering C



**SATHYABAMA**  
**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
(Deemed to be University)



**SCHOOL OF ELECTRICAL AND ELECTRONICS**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
organizes a certified course on  
**Value Added Course on**  
**Mastering C**

**Course Contents ( 32 Hours)**

- Introduction to C Programming
- Data types and Operators
- Controls and Loops
- Functions
- Arrays
- Structures and Unions
- Pointers
- Programming Practice

**Course Outcome**

- To develop coding using C Language
- To solve real world problems

**Pre-requisite: Nil**

**Start Date** : Oct 3, 2022  
**Duration** : Monday - Friday 3.30 PM -4.30 PM  
**Venue** : Circuits and Simulation Lab,EIE 2nd Floor  
**Eligible students:** I ECE and I Aeronautical  
(Only for Hostel Students)

**CHIEF PATRONS**  
Dr. Mariazeena Johnson  
Chancellor  
Dr. Marie Johnson  
President  
Mr.J.Arul Selvam  
Vice President  
Ms.Maria Bernadette Tamilarasi  
Vice President  
Ms.Maria Catheirne Jayapriya  
Vice President  
Dr.T.Sasipraba  
Vice Chancellor

**PATRONS**  
Dr. E.Logashanmugam  
Pro Vice Chancellor  
Dr. G.Sundari  
Director - Administration

**CONVENORS**  
Dr. N.M.Nandhitha  
Prof & Dean / School of EE  
Dr. T.Ravi  
Prof & Head / ECE

**Course Co-ordinators**  
Dr.N.M.Nandhitha / ECE  
Dr.S.Poornapushpakala /ECE

**Resource Persons**  
Dr.N.M.Nandhitha / ECE  
Dr.S.Barani/ ECE  
Dr.S.Emalda Roslin / ECE  
Dr.M.Subramoniam / ECE  
Dr.V.Vedhanarayanan / ECE

Registration Link  
<https://forms.gle/vRxcALinShFTXnsf6>

**List of Participants**

| S. No. | Roll No.  | Name of the Student                    |
|--------|-----------|----------------------------------------|
| 1      | 19S135682 | DUDEKULA AVINASH                       |
| 2      | 19S135670 | DUDIGANI UMESH                         |
| 3      | 19S135128 | DUMPALA RUSHIKESHWAR                   |
| 4      | 19S135789 | EDARA SIVA JAGADEESH                   |
| 5      | 19S138003 | FATIN KISHO. E                         |
| 6      | 19S135099 | FEBI SHAFRIN. G. S                     |
| 7      | 19S139018 | GADE THARUNADITHYA REDDY               |
| 8      | 19S139060 | GADIKOTA NITHISH                       |
| 9      | 19S139019 | GANDAREDDY DIVYASREE                   |
| 10     | 19S135650 | GANDI DEEPAK                           |
| 11     | 19S135703 | GANGALA VENKATA SAI SWAROOP            |
| 12     | 19S131087 | GANGARAJU TEJASWINI                    |
| 13     | 19S135118 | GANTA ANAJALI RAGHAVA NAGA SATYA SURYA |
| 14     | 19S135798 | GARAGABOINA VEERABABU                  |
| 15     | 19S135774 | GAVVALA NIVAS                          |
| 16     | 19S139020 | GAYATHRI. V                            |
| 17     | 19S135588 | GOGULAMUDI PREMCHAND                   |
| 18     | 19S135826 | GOKANI SRIJA                           |
| 19     | 19S135015 | GOKAVARAPU VENKATA VARA PRASAD         |
| 20     | 19S135016 | GOKULA KRISHNAN. S                     |
| 21     | 19S135799 | GOPINATH. K                            |
| 22     | 19S135126 | GORLE UJWAAL                           |
| 23     | 19S135729 | GOUTHAM. K                             |
| 24     | 19S135156 | GOWTHAM. M                             |
| 25     | 19S131095 | GUBBALA UDAY SUBRAMANYA KUMAR          |
| 26     | 19S131023 | GUDAPATI GOPI VISWANADH CHOWDARY       |
| 27     | 19S139016 | GUDIMANIKYAM GANGA BHAVANI             |
| 28     | 19S139021 | GUDURI RAVI KIRAN                      |
| 29     | 19S135690 | GUMMADAPU HARSHITHA HARINDRA           |
| 30     | 19S135677 | GUNA SEKHAR REDDY                      |
| 31     | 19S135017 | GUNDA OM SAI                           |
| 32     | 19S135722 | GUNDLAPUDI SURYA TEJA                  |
| 33     | 19S135078 | GUNUPUDI TARUN KUMAR                   |
| 34     | 19S135634 | GURRAM SREE BALAJI                     |
| 35     | 19S135657 | GUTTALA BINDU POOJITHA                 |
| 36     | 19S139022 | HARI PRASAD. B                         |
| 37     | 19S135081 | HARIMANISH. K                          |
| 38     | 19S131096 | HARISH. J. K                           |
| 39     | 19S135603 | HARSHITHA                              |

|    |           |                                   |
|----|-----------|-----------------------------------|
| 40 | 19S135018 | HEAVENA AMIRDAA. D                |
| 41 | 19S131022 | HEELIA. G                         |
| 42 | 19S135676 | IMMADI SURYA GANGADHAR            |
| 43 | 19S131024 | IMMADISETTY JAYASURYA             |
| 44 | 19S135019 | IMMANUEL. B                       |
| 45 | 19S131025 | INTURI BHANU PRATHAP REDDY        |
| 46 | 19S131026 | INTURI VISHNU VARDHAN REDDY       |
| 47 | 19S135116 | IRIS SHERLINE GLADIS. J           |
| 48 | 19S135072 | ISABEL AKSHAYA. V                 |
| 49 | 19S135663 | ISHWARIYA. P. S                   |
| 50 | 19S135646 | ISWARYA GRANDHI                   |
| 51 | 19S135020 | JAHAN. S                          |
| 52 | 19S135573 | JAMPULA SAITEJA                   |
| 53 | 19S135700 | JANGITI SATHWIK                   |
| 54 | 19S135021 | JANITH CHARA. D                   |
| 55 | 19S135803 | JAYA PRAKASH                      |
| 56 | 19S139023 | JAYABHARATHI. A                   |
| 57 | 19S139024 | JAYAKEERTHANA. K                  |
| 58 | 19S131028 | JAYAKUMAR. J                      |
| 59 | 19S135125 | JAYANTH VARMA ALLURI              |
| 60 | 19S131027 | JEBIN GERALD. J                   |
| 61 | 19S135701 | JERMANUS ALONZO. A                |
| 62 | 19S131100 | JETTI PHANITEJA. J                |
| 63 | 19S135022 | JHAASHWANTH. P                    |
| 64 | 19S131029 | JOE RENIN. E                      |
| 65 | 19S131030 | JONNADULA AKASH                   |
| 66 | 19S135122 | JUVVALA HARSHITHA                 |
| 67 | 19S131031 | JUVVALA ROHAN SIDDHU              |
| 68 | 19S131033 | KADHA CHAKRI VENKATA SURESH KUMAR |
| 69 | 19S135023 | KADIMISETTY MOHAN CHANDRA REDDY   |
| 70 | 19S131034 | KAKANURU SIVA REDDY               |
| 71 | 19S131035 | KAKARLA SAI MANI SRI              |
| 72 | 19S131036 | KALAVAKUNTA SRI VENKATESWARA RAO  |
| 73 | 19S135630 | KALLURI LOKESH DURGA PRASAD       |
| 74 | 19S135144 | KALLURI UPENDHRANATH REDDY        |
| 75 | 19S135726 | KALUGURI SHANMUKHA SAI            |
| 76 | 19S135683 | KAMANABOINA MANIKANTA             |
| 77 | 19S131037 | KANDUKURI INDRASENAREDDY          |
| 78 | 19S135024 | KANDULA SRUTHI                    |
| 79 | 19S135025 | KANIKA. M. S                      |
| 80 | 19S135624 | KANNEBOINA NAGARAJU               |

|     |           |                                        |
|-----|-----------|----------------------------------------|
| 81  | 19S135064 | KANTA SAI SARAVAN                      |
| 82  | 19S131039 | KARANAM SUDHA SAGARI                   |
| 83  | 19S135134 | KARNATI JASHWANTH REDDY                |
| 84  | 19S135600 | KASIREDDY GOKUL MANI RANGA REDDY       |
| 85  | 19S135131 | KASIREDDY VANAJA                       |
| 86  | 19S135659 | KATHULA AJAYKUMAR                      |
| 87  | 19S135592 | KAVETI ASHOK KUMAR YADAV               |
| 88  | 19S131032 | KAVIYA. K                              |
| 89  | 19S135076 | KAVIYA. S                              |
| 90  | 19S139025 | KAVIYADHARSHINI. N                     |
| 91  | 19S135827 | KAVURI SRI SHIVA SAI KIRAN             |
| 92  | 19S135577 | KEERTHANA. P                           |
| 93  | 19S135784 | KEERTHIVASAN. A                        |
| 94  | 19S131041 | KEERTI. G                              |
| 95  | 19S139026 | KHATEJATHULL KUBRA. A                  |
| 96  | 19S131042 | KINTHALI HARISH KUMAR                  |
| 97  | 19S135026 | KIRTHIK. M                             |
| 98  | 19S135785 | KISHORE. A                             |
| 99  | 19S135161 | KODUMUR MEESALA PUSHPA LATHA           |
| 100 | 19S135833 | KODUMURU PARIMALANATH REDDY            |
| 101 | 19S135097 | KOLA NAVEEN KUMAR                      |
| 102 | 19S139027 | KOLAPALLI SAI MAHESH                   |
| 103 | 19S131044 | KOLLA JAI SAI NAGA TEJA                |
| 104 | 19S135086 | KOLLA PHANEENDRA                       |
| 105 | 19S131045 | KOMALI VENKATA SNEHITH                 |
| 106 | 19S135654 | KONCHADA PAVAN                         |
| 107 | 19S135653 | KONDAPARTHI JAHNAVE                    |
| 108 | 19S131046 | KONDRAPU TINU SAHITH                   |
| 109 | 19S135143 | KOPPISETTI SRINIVAS                    |
| 110 | 19S135802 | KORLA GANESH                           |
| 111 | 19S139028 | KORRAPATI VIDYASAGARIKA                |
| 112 | 19S131047 | KOSINEPALLI VENKATA GANESH             |
| 113 | 19S135621 | KOTHAPALLI SRIRAM VARMA                |
| 114 | 19S135098 | KOTHAPALLI UPENDRA                     |
| 115 | 19S131048 | KOTHARU ADITYA PAVAN KUMAR             |
| 116 | 19S135791 | KOTIPALLI KUMAR KRISHNA NIKHIL         |
| 117 | 19S135027 | KRISHNAIAH GARI BADRINATH REDDY        |
| 118 | 19S135693 | KUDUPUDI SATYA SESHAGIRI CHAKARAVARTHI |
| 119 | 19S131049 | KULAKARNI NARENDRA                     |
| 120 | 19S135139 | KUNAMANENI SPANDANA                    |



**SATHYABAMA**

INSTITUTE OF SCIENCE AND TECHNOLOGY



**SCHOOL OF ELECTRICAL AND ELECTRONICS**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

## Certificate of Appreciation

This is to certify that

**Ms.ISHWARIYA P.S** has successfully completed the Certified Course on Mastering C from on 3rd Oct -7th Nov 2022 Completing 32 hours of Course organized by the Department of Electronics and Communication Engineering, Sathyabama Institute of Science and Technology, Chennai.

Resource Person  
**Dr. S.Barani**  
Prof/School of EE

Coordinator  
**Dr. S.Poornapushpakala**  
Prof/School of EE

Coordinator  
**Dr. N. M. Nandhitha**  
Dean/School of EE

## 6. Mastering C



# SATHYABAMA

## INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University)



### SCHOOL OF ELECTRICAL AND ELECTRONICS

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

organizes a certified course on

## Value Added Course on Mastering C

### Course Contents ( 32 Hours)

- Introduction to C Programming
- Data types and Operators
- Controls and Loops
- Functions
- Arrays
- Structures and Unions
- Pointers
- Programming Practice

### Course Outcome

- To develop coding using C Language
- To solve real world problems

**Pre-requisite: Nil**

Start Date : Nov 17 2022  
Duration : Monday - Friday 3.30 PM -4.30 PM  
Venue : Circuits and Simulation Lab,EIE 2nd Floor  
Eligible students: I ECE and I Aeronautical  
(Only for Hostel Students)

### CHIEF PATRONS

Dr. Mariazeena Johnson  
Chancellor

Dr. Marie Johnson  
President

Mr.J.Arul Selvam  
Vice President

Ms.Maria Bernadette Tamilarasi  
Vice President

Ms.Maria Catheirne Jayapriya  
Vice President

Dr.T.Sasipraba  
Vice Chancellor

### PATRONS

Dr. E.Logashanmugam  
Pro Vice Chancellor

Dr. G.Sundari  
Director - Administration

### CONVENORS

Dr. N.M.Nandhitha  
Prof & Dean / School of EE

Dr. T.Ravi  
Prof & Head / ECE

### Course Co-ordinators

Dr.N.M.Nandhitha / ECE  
Dr.S.Poornapushpakala /ECE

### Resource Persons

Dr.N.M.Nandhitha / ECE  
Dr.S.Barani/ ECE  
Dr.S.Emalda Roslin / ECE  
Dr.M.Subramoniam / ECE  
Dr.V.Vedhanarayanan / ECE

Registration Link  
<https://forms.gle/vRxcALinShFFXnsf6>

**List of Participants**

| SL.NO | ROLL NO   | NAME OF THE STUDENT                      |
|-------|-----------|------------------------------------------|
| 1     | 21S135452 | BODDU LAKSHMI SAMEERA                    |
| 2     | 21S135482 | BOJJA SAHITHI                            |
| 3     | 21S135161 | BOLLIMUNTHA JYOTHI RATAN BHARGAV         |
| 4     | 21S135538 | BONAGIRI PRANAY                          |
| 5     | 21S135200 | BONDA NOOKA APPA RAO                     |
| 6     | 21S135350 | BOTTA CHIRU SIVA KUMAR                   |
| 7     | 21S135020 | BOYINA CHINNA RAJA SATYA SANTOSH         |
| 8     | 21S135220 | BUCHHETI MUNI RAKESH                     |
| 9     | 21S135457 | BUDDHALA SIRISHA                         |
| 10    | 21S135518 | BYSANI PHANEENDRA                        |
| 11    | 21S131001 | CARMINE TANYA                            |
| 12    | 21S135286 | CHALLA SHARATH KUMAR REDDY               |
| 13    | 21S135465 | CHALLAPALLI SAI MANOJ KUMAR              |
| 14    | 21S135105 | CHAMARTHI KARTHIK                        |
| 15    | 21S135498 | CHAMARTHI SIVA SAI                       |
| 16    | 21S139010 | CHAPATI LAKSHMI KAVYA                    |
| 17    | 21S135242 | CHARUGUNDLA NIHARIKA                     |
| 18    | 21S135395 | CHEEDELLA V PRASANNAJENYA RAGHURAM KUMAR |
| 19    | 21S139046 | K CHELLAMMAL                             |
| 20    | 21S135037 | CHERUKUPALLI GANESH YESHWANTH            |
| 21    | 21S135116 | CHILUKURI NAGA VENKATA SAI KISHORE       |
| 22    | 21S135103 | CHINIMILI NAGA KUMAR SWAMY               |
| 23    | 21S131014 | CHINTALAPUDI MAHENDHAR PAVAN             |
| 24    | 21S135178 | CHINTALURI SAI ABHIRAM                   |
| 25    | 21S135329 | CHIRALAM KEERTHI                         |
| 26    | 21S135001 | CHIRUMAMILLA HARSHA VARDHAN RAO          |
| 27    | 21S135484 | CHITRA VEERA SATYA LAKSHMI PRASAD        |
| 28    | 21S135071 | CLARET NITASHA R                         |
| 29    | 21s135390 | DALU SWETHA SREE                         |
| 30    | 21S135302 | DANDU SANDEEP VARMA                      |
| 31    | 21S135253 | DAREDDY PRAVEEN KUMAR REDDY              |
| 32    | 21S135126 | DASARI BRAMHANANDA REDDY                 |
| 33    | 21S135422 | DASARI SAI SHIVANVITHA                   |
| 34    | 21S135252 | DASARI SAINADH                           |
| 35    | 21S135460 | DASARI VENU MADHAV                       |
| 36    | 21S135250 | DASARIRAJU PRAVEEN                       |
| 37    | 21S139029 | DEEPIKA S                                |

|    |           |                                   |
|----|-----------|-----------------------------------|
| 38 | 21S135514 | DEVASHISH G                       |
| 39 | 21S135297 | DEVI SOUNDARIYA S                 |
| 40 | 21S139054 | H DHANSILA                        |
| 41 | 21S135150 | DHANUSH KUMAR M                   |
| 42 | 21S135436 | DHANYATA SMRITI .M                |
| 43 | 21S139066 | THARANI P                         |
| 44 | 21S135179 | K DILLI SAI                       |
| 45 | 21S135054 | DINESH BABU N R                   |
| 46 | 21S131012 | DINESH N                          |
| 47 | 21S135065 | DIVAKAR G                         |
| 48 | 21S139056 | K DIVYA DHARSHINI                 |
| 49 | 21S139011 | DIVYA S                           |
| 50 | 21S135110 | DODDI JAHNAVI                     |
| 51 | 21S135404 | DODDIPATLA PRAKASH                |
| 52 | 21S135111 | DOKALA PAVAN KUMAR                |
| 53 | 21S135231 | DOMMETI SIVA GANESH               |
| 54 | 21S135374 | DOPPA RAKESH CHANDRA              |
| 55 | 21S135165 | DRONAMRAJU VENKATA JISHNU         |
| 56 | 21S135413 | DUDALA.PRAVEEN                    |
| 57 | 21S135086 | DURGESH CHINTA                    |
| 58 | 21S135278 | EDIGA AJAY                        |
| 59 | 21S139013 | ELANGO VAN P                      |
| 60 | 21S139037 | EMANDI VIJAYKUMAR                 |
| 61 | 21S131003 | ENAPAKURTHI PAVAN KUMAR           |
| 62 | 21S135083 | ERAPALLI CHARAN KUMAR REDDY       |
| 63 | 21S135527 | EUGENE KUMAR C                    |
| 64 | 21S135089 | GADAMSETTI MOHAN RAMESH           |
| 65 | 21S135198 | GADDE JOSHNASRI PRANITHA CHOWDARY |
| 66 | 21S139015 | GADIKOTA BHAVANA                  |
| 67 | 21S135223 | GADUSULA MAHESH                   |
| 68 | 21S139016 | GAJENDHIRAN R                     |
| 69 | 21s135480 | GAJULAPALLI HARSHA VARDHAN REDDY  |
| 70 | 21S135097 | GANGUMOLU DURGA DHANA SUBBA RAO   |
| 71 | 21S139017 | GANTA AKHILESWARI                 |
| 72 | 21S135318 | GARLAPATI SASI VARDHAN            |
| 73 | 21S135151 | GAUTHAM S                         |
| 74 | 21S135433 | A.GAYATHRI                        |
| 75 | 21S139039 | GEDELA SWAPNA                     |
| 76 | 21S135519 | GODA VINOD KUMAR                  |

|     |            |                                         |
|-----|------------|-----------------------------------------|
| 77  | 21S135324  | GOKUL G                                 |
| 78  | 21S135066  | GOKUL S                                 |
| 79  | 21S139044  | GOLUKONDA NAVYA SRI                     |
| 80  | 21S135341) | GONGALLA TEJAVARDHAN                    |
| 81  | 21S135101  | GONGATI AJAY KUMAR REDDY                |
| 82  | 21S135113  | GOPIKA K                                |
| 83  | 21S135295  | GOTTIPATI VENKATESWARLU                 |
| 84  | 21S135446  | GOVVALA SANTHOSH                        |
| 85  | 21S135224  | GRACE RITHISHA J                        |
| 86  | 21S135381  | GUDELLI PAVAN KUMAR                     |
| 87  | 21S135008  | GUDI CHANDU                             |
| 88  | 21s135038  | GUNASEKAR B                             |
| 89  | 21S135398  | GUNDU GANESH SHIVA KUMAR                |
| 90  | 21S135304  | GUNTIMADUGU BHARGAV KUMAR RAJU          |
| 91  | 21S135059  | HAREESH B                               |
| 92  | 21S135204  | HARI HARAN.S                            |
| 93  | 21S135282  | HARI PRASATH BV                         |
| 94  | 21S139027  | HARIHARAN M                             |
| 95  | 21S139034  | HARIHARAN N                             |
| 96  | 21S135074  | HARIHARAN R                             |
| 97  | 21S139070  | HARIHARAN. K                            |
| 98  | 21S135056  | HARINI.S                                |
| 99  | 21S135117  | HARISH M                                |
| 100 | 21S135121  | HEMANTH KUMAR J                         |
| 101 | 21S135024  | IMMANUVEL A                             |
| 102 | 21S135316  | INTIPALLI SATYA SRIRAM                  |
| 103 | 21S135376  | IRAGANENI HEMANADHA REDDY               |
| 104 | 21S135128  | JAGAN N                                 |
| 105 | 21S135249  | JAGGAVARAPU VENKATA HARSHAVARDHAN REDDY |
| 106 | 21S135475  | JAKKA VENKATA VARA SIDHU NAIDU          |
| 107 | 21S135144  | JALAY UJWALAA                           |
| 108 | 21S139042  | JALLI RAHUL                             |
| 109 | 21S135063  | JALLURI MANIKANTA NAGA VENKATESH        |
| 110 | 21s135444  | JALUMURU VINEETH                        |
| 111 | 21S139050  | M JANANI                                |
| 112 | 21S135093  | JARISH J                                |
| 113 | 21S135045  | B JASWANT                               |
| 114 | 21S135365  | JAVVADI TARUN                           |
| 115 | 21S131011  | JAYA KARUNESH S                         |
| 116 | 21S139047  | JAYABHARATHI S                          |

|     |           |             |
|-----|-----------|-------------|
| 117 | 21S135202 | JAYAKUMAR.T |
| 118 | 21S131017 | G JAYASURYA |
| 119 | 21S135173 | JEBARAJ J   |
| 120 | 21S135060 | JEFFRIN J P |



**SATHYABAMA**

INSTITUTE OF SCIENCE AND TECHNOLOGY



**SCHOOL OF ELECTRICAL AND ELECTRONICS**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

## Certificate of Appreciation

This is to certify that

**Mr.ELANGO VAN A N P** has successfully completed the Certified Course on Mastering C from on **17th Nov - 20th Dec 2022**, Completing 32 hours of Course organized by the Department of Electronics and Communication Engineering, Sathyabama Institute of Science and Technology, Chennai.

Resource Person  
**Dr. S. Barani**  
Prof/School of EE

Coordinator  
**Dr. S. Poornapushpakala**  
Prof/School of EE

Coordinator  
**Dr. N. M. Nandhitha**  
Dean/School of EE

## 7. Mastering C



**SATHYABAMA**  
**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
(Deemed to be University)



**SCHOOL OF ELECTRICAL AND ELECTRONICS**  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
organizes a certified course on

**Value Added Course on**  
**Mastering C**

**Course Contents ( 32 Hours)**

- Introduction to C Programming
- Data types and Operators
- Controls and Loops
- Functions
- Arrays
- Structures and Unions
- Pointers
- Programming Practice

**Course Outcome**

- To develop coding using C Language
- To solve real world problems

**Pre-requisite: Nil**

**Start Date** : Jan 22, 2023  
**Duration** : Monday - Friday 3.30 PM -4.30 PM  
**Venue** : Circuits and Simulation Lab,EIE 2nd Floor  
**Eligible students:** I ECE and I Aeronautical  
(Only for Hostel Students)

**CHIEF PATRONS**  
Dr. Mariazeena Johnson  
Chancellor  
Dr. Marie Johnson  
President  
Mr.J.Arul Selvam  
Vice President  
Ms.Maria Bernadette Tamilarasi  
Vice President  
Ms.Maria Catheirne Jayapriya  
Vice President  
Dr.T.Sasipraba  
Vice Chancellor

**PATRONS**  
Dr. E.Logashanmugam  
Pro Vice Chancellor  
Dr. G.Sundari  
Director - Administration

**CONVENORS**  
Dr. N.M.Nandhitha  
Prof & Dean / School of EE  
Dr. T.Ravi  
Prof & Head / ECE

**Course Co-ordinators**  
Dr.N.M.Nandhitha / ECE  
Dr.S.Poornapushpakala /ECE

**Resource Persons**  
Dr.N.M.Nandhitha / ECE  
Dr.S.Barani/ ECE  
Dr.S.Emalda Roslin / ECE  
Dr.M.Subramoniam / ECE  
Dr.V.Vedhanarayanan / ECE

Registration Link  
<https://forms.gle/vRxcALinShFXnsf6>

**List of Participants**

| <b>SL.NO</b> | <b>ROLL NO</b> | <b>NAME OF THE STUDENT</b>                     |
|--------------|----------------|------------------------------------------------|
| 1            | 22S135370      | MUGILAN S                                      |
| 2            | 22S135314      | MUHAMMAD FADIL SHAHUL HAMEED                   |
| 3            | 22S135096      | MUHESH A                                       |
| 4            | 22S135454      | MUHIL VANNAN J S                               |
| 5            | 22S135151      | MUKESH. C. K                                   |
| 6            | 22S135203      | MUKKANI R                                      |
| 7            | 22S135174      | MULLAPUDI L V V S S M RAMA KRISHNA<br>CHOWDARY |
| 8            | 22S139008      | MUMMANA NAGA DEVISRI                           |
| 9            | 22S135294      | MUSTI MANIKANTA HARI KRISHNA KAUSHIK           |
| 10           | 22S135471      | MUTYALA ATHIRADH                               |
| 11           | 22S135443      | MYLAVARAPU SAI RAGHURAM                        |
| 12           | 22S135420      | NANDHAKUMAR P                                  |
| 13           | 22S139016      | NANDHINEESWARI.B                               |
| 14           | 22S131004      | NANDHINI.G                                     |
| 15           | 22S135444      | K NANDIKA                                      |
| 16           | 22S135397      | DB NANTHICKA                                   |
| 17           | 22S135258      | NARALASETTI UMESH SURYA KIRAN                  |
| 18           | 22S135458      | NARESH RAJA J                                  |
| 19           | 22S135086      | C NAVEEN                                       |
| 20           | 22S135483      | N NAVEEN KUMAR                                 |
| 21           | 22S135434      | NAVEESHWAR B                                   |
| 22           | 22S135433      | NEERAJ M                                       |
| 23           | 22S135380      | NIKHIL R                                       |
| 24           | 22S135251      | NIRAN NIKETHAN .J                              |
| 25           | 22S135007      | S NIRANJAN                                     |
| 26           | 22S135406      | NIRMAL KUMAR V                                 |
| 27           | 22S135279      | NIROSHA K                                      |
| 28           | 22S135441      | NITESH S                                       |
| 29           | 22S135121      | NITHISH NATARAJ E                              |
| 30           | 22S135363      | NIVEDHA A                                      |

|    |           |                              |
|----|-----------|------------------------------|
| 31 | 22S135099 | PACHAIYAPPAN C               |
| 32 | 22S139007 | PANCHALA PAVAN MANIKANTA     |
| 33 | 22S135372 | PARAMESHWARI. K              |
| 34 | 22S135234 | PARASA NAGA KARTHIK          |
| 35 | 22S135076 | PARTHEEPAN J                 |
| 36 | 22S135158 | PARTHIBAN M                  |
| 37 | 22S135301 | PASUPULETLAASRITHA           |
| 38 | 22S135056 | PATHIPATI SUDHARSHAN NAIDU   |
| 39 | 22S135260 | PAUL JEFFERY J               |
| 40 | 22S135340 | J.PAVAN KALYAN               |
| 41 | 22S131016 | PAVAN SAI E                  |
| 42 | 22S135315 | PAVISH M N                   |
| 43 | 22S135493 | PEPAKAYALA MOHAN KUMAR       |
| 44 | 22S135025 | PITTI VENKATA ANJANI KRISHNA |
| 45 | 22S135078 | POGAKU VAIDEHI               |
| 46 | 22S131020 | POLAKA.VENKATESWARLU         |
| 47 | 22S135354 | R PRADEEP VASAN              |
| 48 | 22S135366 | R.K.PRAGADEESWARAN           |
| 49 | 22S135381 | PRAKADEESH.S                 |
| 50 | 22S135322 | PRAKTHISHA M.U               |
| 51 | 22S135202 | PRANAVAGARAN B               |
| 52 | 22S135377 | PRASANNIKAA S                |
| 53 | 22S135018 | S PRASHANTH                  |
| 54 | 22S135271 | S PRATHIBAH                  |
| 55 | 22S135138 | PRAVEN O R                   |
| 56 | 22S135122 | PRIYA V                      |
| 57 | 22S135209 | PRIYADHARSHINI V             |
| 58 | 22S139002 | PRIYADHARSHINI R             |
| 59 | 22S131014 | BHETALAM PRIYANKA            |
| 60 | 22S135296 | PULAPA MOHANA SAI            |
| 61 | 22S135074 | PUTHETI HARI SUJITH          |
| 62 | 22S135171 | PYLA MOHANSAI                |
| 63 | 22S135292 | T RADHIKA                    |
| 64 | 22S135040 | RAHIN LYSON M                |
| 65 | 22S135116 | RAHUL N                      |

|     |           |                           |
|-----|-----------|---------------------------|
| 66  | 22S135219 | RAHUL R                   |
| 67  | 22S135221 | RAHUL KRISHNAN            |
| 68  | 22S135274 | RAHUL KUMAR R R           |
| 69  | 22S135182 | RAJASEKAR M               |
| 70  | 22S135035 | RAKEESH LIJO J            |
| 71  | 22S135110 | RANJINI PRIYA J           |
| 72  | 22S135141 | RANJITH G                 |
| 73  | 22S135038 | RASI VINAY                |
| 74  | 22S135227 | RATHIL AARON G            |
| 75  | 22S135362 | RAVURI RAHUL              |
| 76  | 22S135228 | M. U. RAZIA               |
| 77  | 22S135152 | REGAN M                   |
| 78  | 22S138004 | H RESHELA                 |
| 79  | 22S135273 | RESHMA S                  |
| 80  | 22S139031 | T RISHI ARAVINDAN         |
| 81  | 22S135079 | RISHI SHANKAR P           |
| 82  | 22S135075 | RISHI VALLIAPPAN N        |
| 83  | 22S135010 | ROHAN KUMAR PAUL          |
| 84  | 22S135050 | ROHITH S                  |
| 85  | 22S135255 | K.RUSHMITHA               |
| 86  | 22S135438 | SABARIVASAN S             |
| 87  | 22S135456 | SADANALA RAMALINGA ANIL   |
| 88  | 22S135187 | SAI KRISHNA R J           |
| 89  | 22S135052 | KOMMANA SAI PAVAN KUMAR   |
| 90  | 22S135392 | K.R.SAI PRASANNA          |
| 91  | 22S135060 | SAIRAM BASKARAN           |
| 92  | 22S135267 | SAJITH A R                |
| 93  | 22S135299 | SAKAMURI CHANDANA         |
| 94  | 22S135311 | SAKTHIVEL S J             |
| 95  | 22S135402 | SAKUPAR SADIQ A           |
| 96  | 22S135477 | SAMARA CATHERIN JEYAKUMAR |
| 97  | 22S135350 | SANA AFRIN J              |
| 98  | 22S135223 | SANATHKUMAR.K             |
| 99  | 22S135305 | SANDHIYA.M                |
| 100 | 22S135383 | M.B.SANGEETH              |

|     |           |                               |
|-----|-----------|-------------------------------|
| 101 | 22S135132 | SANJANA S                     |
| 102 | 22S135358 | SANJAY S                      |
| 103 | 22S135068 | SANJAY J A                    |
| 104 | 22S135011 | SANJEEV M                     |
| 105 | 22S135324 | S.SANNJAY KUMAAR              |
| 106 | 22S135161 | SANTHIYA V                    |
| 107 | 22S135327 | S.SANTHOSH SHIVAN             |
| 108 | 22S135087 | SARAN R                       |
| 109 | 22S139010 | SARANYA S                     |
| 110 | 22S135415 | S SARAVANAA                   |
| 111 | 22SI31003 | S.SAI BHARATH                 |
| 112 | 22S139006 | SARIKI BHUVAN CHANDRA KISHORE |
| 113 | 22S135013 | SARPAVARAPU BHARAT            |
| 114 | 22S135403 | SATHISH K                     |
| 115 | 22S135319 | SATHIYASEELAN J               |
| 116 | 22S135032 | SELVA M                       |
| 117 | 22S135313 | SELVARANJANI S                |
| 118 | 22S135176 | SENTHOOR VEL T                |
| 119 | 22S135237 | SHABASRI S                    |
| 120 | 22S135386 | SHAIK ALTHAF                  |



**SATHYABAMA**

INSTITUTE OF SCIENCE AND TECHNOLOGY



**SCHOOL OF ELECTRICAL AND ELECTRONICS**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

## Certificate of Appreciation

This is to certify that

**Mr.NIRMAL KUMAR V** has successfully completed the Certified Course on Mastering C from on 2nd Jan - 5th Feb 2023, Completing 32 hours of Course organized by the Department of Electronics and Communication Engineering, Sathyabama Institute of Science and Technology, Chennai.

Resource Person  
**Dr. S.Barani**  
Prof/School of EE

Coordinator  
**Dr. S.Poornapushpakala**  
Prof/School of EE

Coordinator  
**Dr. N. M. Nandhitha**  
Dean/School of EE

## 8.Value Added Course on Communication Using LabVIEW



**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)

**SCHOOL OF ELECTRICAL AND ELECTRONICS**  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING

Organizes Value Added Course on  
**Communication Using  
LABVIEW**

**Program Highlights :**

- Students will learn from basic to intermediate Application Development
- Students will be able to do their mini projects on their own
- Students will gain great ideas about how to crack NI GLOBAL Certification
- Students will learn about industrial requirements

**Contents :**

**Duration :**  
**30 Hrs**  
**2.2.2023 onwards**  
**(Tues & Thu)**

**Time:**  
**3:15 - 5:15 pm**

**Using LabVIEW**

- Amplitude Modulation
- DSBSC Modulation
- SSBSC Modulation
- Frequency Modulation
- FDM, ASK, FSK
- PSK, QPSK
- **Mini project**

**Introduction to myDAQ**

- Introduction to myDAQ
- AM using myDAQ
- FM using myDAQ
- PAM using myDAQ
- PWM using myDAQ
- PPM using myDAQ
- ASK using myDAQ
- **Mini project**

**Introduction to LabVIEW environment**

- Graphs & Charts, Sub VI
- Loops, Feedback Node
- Case Structure
- Arrays, Clusters
- **Mini project**

**Patrons**

**Conveners**  
Dr.N.M.Nandhitha, Dean, SoEE  
Dr.T.Ravi, HoD, ECE

**Organizers**  
Dr.V.Vijaya Baskar, Professor  
Dr.R.Narmadha, Assoc. Prof.  
Dr.Krishna Prasanna, Asst. Prof.  
Dr.M.S.Godwin Premi, Professor  
Dr.A.Aranganathan, Assoc. Prof.  
Dr.L.Megalon Leo, Asst. Prof.

**Dr.T.Sasipraba**  
Vice Chancellor  
**Dr.E.Logashanmugam**  
Pro Vice Chancellor  
**Dr.S.S.Rao**  
Registrar  
**Dr.B.Ignl Sabasti Prabu**  
Controller of Examinations  
**Dr.B.Sheela Rani**  
Director Research  
**Dr.C.Sundari**  
Director-Admin

**Chief Patrons**  
**Dr.Mariazeena Johnson**  
Chancellor  
**Dr.Marie Johnson**  
President  
**Mr.J.Arul Selvan**  
Vice President  
**Mrs.Maria Bernadette Tamilarasi**  
Vice President  
**Ms.Maria Catherine Jayapriya**  
Vice President

## Session Plan

| Topics to be covered                                                        | No. of Hours |
|-----------------------------------------------------------------------------|--------------|
| INTRODUCE LABVIEW ENVIRONMENT                                               | 1            |
| GRAPHS & CHARTS:                                                            | 1            |
| LOOPS:                                                                      | 1            |
| WHILE LOOP:                                                                 | 1            |
| FEEDBACK NODE: SHIFT REGISTER:                                              | 1            |
| CASE STRUCTURE:                                                             | 1            |
| ARRAYS:                                                                     | 1            |
| CLUSTERS:                                                                   | 1            |
| Example programs Using LabVIEW                                              | 1            |
| Mini Project 1                                                              | 2            |
| Amplitude Modulation using LabVIEW                                          | 1            |
| DSBSC Modulation using LabVIEW                                              | 1            |
| SSBSC Modulation using LabVIEW                                              | 1            |
| FM using LabVIEW                                                            | 1            |
| FDM using LabVIEW                                                           | 1            |
| ASK using LabVIEW                                                           | 1            |
| FSK using LabVIEW                                                           | 1            |
| PSK using LabVIEW                                                           | 1            |
| QPSK using LabVIEW                                                          | 1            |
| Miniproject 2                                                               | 1            |
| Introduction to myDAQ                                                       | 2            |
| Generation Of Amplitude Modulation And De- Modulation using myDAQ           | 1            |
| Generation Of Frequency Modulation using myDAQ                              | 1            |
| Pulse Amplitude Modulation(PAM) using myDAQ                                 | 1            |
| Pulse Width Modulation (PWM) and Pulse Position Modulation(PPM) using myDAQ | 1            |
| Generation of Amplitude Shift Keying (ASK) using myDAQ                      | 1            |
| Miniproject 3                                                               | 2            |



**Course Outcome:**

This course gives basic knowledge on LabVIEW environment and all the Basic communication terms using LabVIEW

**List of Participants**

| SL.NO | ROLL NO   | NAME OF THE STUDENT         |
|-------|-----------|-----------------------------|
| 1     | 21S135346 | NALLAGORLA KOTAIAH BABU     |
| 2     | 21S135130 | NALLAMILLI RAMA REDDY       |
| 3     | 21S135201 | NANDIGAMA KEERTHI AVINASH   |
| 4     | 21S135495 | NANDIVADA SHYAM SUNDAR RAJ  |
| 5     | 21S135288 | NARASIMMAN S                |
| 6     | 21S135524 | NARESHINI T                 |
| 7     | 21S135244 | NARRA LEELA VENKATA TANUJA  |
| 8     | 21S139026 | NAVEEN GANAPATHY S          |
| 9     | 21S135290 | NAVEEN KUMAR S              |
| 10    | 21S135205 | NAVEEN KUMAR S              |
| 11    | 21S135516 | NAVEETH M                   |
| 12    | 21S135265 | N NAVYA RACHEL              |
| 13    | 21S135211 | NEELAM HEMANTH KUMAR        |
| 14    | 21S135285 | NEERUKATTU SATHISH          |
| 15    | 21S135345 | NERALLA RAVIKUMAR           |
| 16    | 21S135098 | NIRANJAN KARTHICK G V       |
| 17    | 21S139068 | NIROSHA                     |
| 18    | 21S135298 | NISHANTH G                  |
| 19    | 21S135188 | NITESH SHARAN P             |
| 20    | 21s135399 | NITHESH.S                   |
| 21    | 21S135354 | NULAKA ADINAIDU             |
| 22    | 21S135347 | NUNE SIVA RAMA KRISHNA      |
| 23    | 21S135491 | OBULAREDDY NRUSIMHA KOUSHIK |
| 24    | 21s135393 | PAIDI SAI SUJITH NAIDU      |
| 25    | 21S135506 | PAILA PRASANNA KUMAR        |
| 26    | 21S135469 | PAKALAPATI ABHIRAMA RAJU    |
| 27    | 21S135164 | PALAGANI KUSUMA             |
| 28    | 21S135487 | PALATHERDAM SAI KUMAR       |
| 29    | 21S135369 | PAMULURU AKHILA             |
| 30    | 21S135373 | PAMULURU SAIEESH REDDY      |
| 31    | 21S135396 | PAPISETTY SUDHEER           |
| 32    | 21S135447 | PARASA GAYATRI DEVI         |
| 33    | 21S135336 | PARASA.GNAN NAGA SAI VIKAS  |
| 34    | 21S135454 | PARCHURI HARI PRANEETH      |
| 35    | 21S135456 | PARIMI CHAITANYA SAI        |

|    |           |                                       |
|----|-----------|---------------------------------------|
| 36 | 21s135426 | PASUPULA MANOHITH                     |
| 37 | 21S135247 | PATAN RIYAZ                           |
| 38 | 21S135273 | PATHAKAMURI YUGADEEP                  |
| 39 | 21S135461 | PATTAPURAJU SAI KIRAN                 |
| 40 | 21S139061 | K PAVITHRA                            |
| 41 | 21S139058 | B PAVITHRA                            |
| 42 | 21S135371 | PEDADA TARUN VARMA                    |
| 43 | 21S135014 | PENUJURI GIRISH                       |
| 44 | 21S135366 | PILLA UDAY PHANINDRA                  |
| 45 | 21S135148 | PILLA PAVAN                           |
| 46 | 21S135132 | PILLI AMARNATH                        |
| 47 | 21S135090 | PILLI ASHOK KUMAR                     |
| 48 | 21S135248 | PINDIKURI LIKHITHA REDDY              |
| 49 | 21S135383 | PODAPALA VENKATA GOPALA KRISHNA REDDY |
| 50 | 21S135308 | POLLA VAMSI KIRAN                     |
| 51 | 21S135344 | POLNEDI GOPI KRISHNA                  |
| 52 | 21S135026 | POLUPARTHI SAI VISWA TEJA             |
| 53 | 21S135294 | PONDURI ANVESH                        |
| 54 | 21S135189 | PONNADA BALA KOUSIK                   |
| 55 | 21S135124 | POOJA SREE B                          |
| 56 | 21S135091 | POTHULA SHARATH SANTHOSH              |
| 57 | 21S135312 | POTHULA YAMINI                        |
| 58 | 21S135359 | POTHURI SURYA                         |
| 59 | 21S135118 | POTLURU PENCHALA ESWAR                |
| 60 | 21S135368 | POTU MOHANA LAKSHMI PRAVALLIKA        |
| 61 | 21S135139 | POUDAPALLY SRIJA                      |
| 62 | 21S135194 | PRADEEP                               |
| 63 | 21S135386 | PRAGADA NAGA DURGA PAVAN              |
| 64 | 21S135385 | S PRANAV                              |
| 65 | 21S135137 | PRANAV L                              |
| 66 | 21S139030 | PRARTHANA A                           |
| 67 | 21S131021 | PRASADH P                             |
| 68 | 21S135299 | PRASENNA C                            |
| 69 | 21s135394 | PRASHANK.PATIBANDLA                   |
| 70 | 21S135196 | M.PRASHANTH NAIDU                     |
| 71 | 21S135305 | S T PRAVEEN KUMAR                     |
| 72 | 21S135069 | PRAVEEN KUMAR M                       |
| 73 | 21S135187 | PRISHA S ZEPHAN                       |
| 74 | 21S135317 | PRITHVI PRATAP                        |
| 75 | 21S139033 | PRIYA P                               |



# **SATHYABAMA**

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)

**SCHOOL OF ELECTRICAL AND ELECTRONICS**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

## *Certification of Completion*

This is to certify that

**HARINI G** from Sathyabama Institute of Science and Technology has successfully completed the value added course on "**Communication Using Labview**" from 2.2.2023 to 18.2.2023 organized by department of Electronics and Communication Engineering, School of Electrical and Electronics, Sathyabama Institute of Science and Technology, Chennai.

Head of the Department  
**Dr.T.RAVI**

Prof & Dean  
**Dr.N.M.Nandhitha**

## 9. Experimental Learning of Data Structures through C Programming



# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)  
*Accredited with Grade "A" by NAAC | 12B Status by UGC | Approved by AICTE*



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### SCHOOL OF ELECTRICAL AND ELECTRONICS

Department of Electronics and Communication Engineering  
Experimental Learning of Data Structures through C Programming

**Date: 13.03.2023 to 18.03.2023(9.00AM - 3.15 PM)**

| Program Content                                                                                                                                                                          | Resource Persons                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Array Handling</li> <li>Operations in Stack and Queue</li> <li>Recursive Functions</li> <li>Searching and Sorting</li> <li>Linked List</li> </ul> | <ul style="list-style-type: none"> <li>Dr. N. M. Nandhitha</li> <li>Dr. S. Emalda Roslin</li> <li>Dr. S. Barani</li> <li>Dr. N.R.Krishnamoorthy</li> <li>Dr. M.A. Muthiah</li> </ul> |

|                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p style="text-align: center;"><b>CHIEF PATRONS</b></p> <p>Dr. Mariazeena Johnson<br/><b>Chancellor</b></p> <p>Dr. Marie Johnson<br/><b>President</b></p> <p>Mr. J. Arul Selvan<br/><b>Vice president</b></p> <p>Ms. Maria Bernadette Tamilarasi<br/><b>Vice president</b></p> <p>Ms. Maria Catherine Jayapriya<br/><b>Vice president</b></p> | <p style="text-align: center;"><b>PATRONS</b></p> <p>Dr. T. Sasipraba,<br/>Vice Chancellor</p> <p>Dr. E. Logashanmugam,<br/>Pro Vice Chancellor</p> <p>Dr. G. Sundari,<br/>Director- Administration</p> | <p style="text-align: center;"><b>CONVENORS</b></p> <p>Dr. N. M. Nandhitha, Prof. &amp; Dean / SoEE<br/>Dr. T. Ravi, Head/ ECE</p> <p style="text-align: center;"><b>ORGANIZERS</b></p> <p>Dr. N. M. Nandhitha, Prof. &amp; Dean / SoEE<br/>Dr. S. Emalda Roslin, Prof. /ECE</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**E-Certificate will be provided to all participants**

**Session Plan**

| Topics to be Covered         | No. of Hours |
|------------------------------|--------------|
| Array Handling               | 6            |
| Operation in Stack and Queue | 6            |
| Recursive Functions          | 6            |
| Searching and Sorting        | 6            |
| Linked List                  | 6            |

**Course Outcome:**

At the completion of the course the students can Understand basic data structures such as arrays, linked lists, stacks and queues also apply Algorithm for solving problems like sorting, searching, insertion and deletion of data with the help of C programming.

**List of Participants**

| SL.NO | ROLL NO   | NAME OF THE STUDENT      |
|-------|-----------|--------------------------|
| 1     | 22S135359 | A.AARTHI                 |
| 2     | 22S135198 | ABHINAV HARSHAN A B      |
| 3     | 22S135002 | ABHISEK J                |
| 4     | 22S135384 | B ABILESH BAXI           |
| 5     | 22S135265 | ABINAYA S                |
| 6     | 22S131015 | ABINESH P J              |
| 7     | 22S135124 | A ABIRAM                 |
| 8     | 22S135029 | ABISHEK G                |
| 9     | 22S135337 | ABISHKAR.M               |
| 10    | 22S139030 | ABUL HASAN. M            |
| 11    | 22S135442 | B N ADARSH               |
| 12    | 22S131021 | ADDA HVSN MARUTHI SRIKAR |
| 13    | 22S135423 | K S ADHITH               |
| 14    | 22S135102 | ADHITHYA V               |
| 15    | 22S135117 | ADHITHYASIVA M           |
| 16    | 22S135026 | ADHVAITH S               |
| 17    | 22S135059 | ADIRAJU PHANI TEJA       |
| 18    | 22S135450 | ADIREDDI KARTHIKEYA      |
| 19    | 22S135236 | ADITHYA.M                |
| 20    | 22S135069 | ADITI SINHA              |
| 21    | 22S139022 | AIFOONA J                |

|    |           |                           |
|----|-----------|---------------------------|
| 22 | 22S135090 | AJAYKUMAR P               |
| 23 | 22S135216 | AJAYPRADEEP.K.V           |
| 24 | 22S139026 | AKASH S                   |
| 25 | 22S135106 | AKHILESHWARAN V           |
| 26 | 22S135145 | AKSHAYA S                 |
| 27 | 22S135165 | ALEX JESLIN A I           |
| 28 | 22S135303 | ALLAMI R                  |
| 29 | 22S135414 | AMAR PRAKASH              |
| 30 | 22S135148 | ANANDAM SAI PUNEETH       |
| 31 | 22S135449 | ANAPU RAJESH              |
| 32 | 22S135225 | ANBARASU.G                |
| 33 | 22S135100 | ANBAZHAGAN M              |
| 34 | 22S135351 | ANDHE AKHILA REDDY        |
| 35 | 22S135157 | ANDREW GLENN J            |
| 36 | 22S135491 | ANTHONYA CRUZ REGITHA R   |
| 37 | 22S135466 | ANTO VIJITH V             |
| 38 | 22S135154 | ANUMULA SAI KUMAR         |
| 39 | 22S135284 | R.ANURAG                  |
| 40 | 22S135276 | ANUSHREE M                |
| 41 | 22S139005 | ANUSIYA P                 |
| 42 | 22S135281 | ARAVINDHAN.C              |
| 43 | 22S135224 | ARAVINTHA KUMAAR R.K      |
| 44 | 22S135159 | AREPALLI RANJITH KUMAR    |
| 45 | 22S135105 | ARIHARASUDHAN D           |
| 46 | 22S135199 | ARUL PRAKASH A            |
| 47 | 22S135015 | V ARUN SURENDRHIRAN       |
| 48 | 22S135063 | ARURU GNANESWAR REDDY     |
| 49 | 22S135240 | ARYA ANIL                 |
| 50 | 22S135184 | ASWIN G                   |
| 51 | 22S135342 | ASWIN R                   |
| 52 | 22S135229 | ASWINVISHAL.A             |
| 53 | 22S135339 | ASWINI.I                  |
| 54 | 22S135253 | ATCHYUTA SRIRAM GADA      |
| 55 | 22S135476 | BACHU NIVEDITHA           |
| 56 | 22S135451 | BADDIREDDY SATYAJAGADEESH |

|    |           |                                    |
|----|-----------|------------------------------------|
| 57 | 22S135242 | BADUGU PRUDHVINATH                 |
| 58 | 22S135175 | BAGAVATH RAAM N S K                |
| 59 | 22S135173 | S. BALACHANDAR                     |
| 60 | 22S135489 | BALASUBRAMANIAN A                  |
| 61 | 22S135378 | BALUSU.SRIRAM                      |
| 62 | 22S135277 | BANDLA PRUDHVI                     |
| 63 | 22S135191 | BAPITHA.A                          |
| 64 | 22S135336 | BARANIDHARAN G                     |
| 65 | 22S135190 | BAVITHRA.A                         |
| 66 | 22S138001 | BENEDICT ROY S                     |
| 67 | 22S135307 | R J BENJAMIN ROBERT                |
| 68 | 22S135103 | BENNY HIN R                        |
| 69 | 22S135419 | BERLIN V                           |
| 70 | 22S135428 | BETHAPUDI NAVEEN PRAKASH           |
| 71 | 22S135107 | BHARADHAN P                        |
| 72 | 22S135244 | BHARANI DHARAN.T                   |
| 73 | 22S135323 | BHARANIDHARAN R                    |
| 74 | 22S135019 | P BHARAT                           |
| 75 | 22S135131 | BHAVENTHAN R                       |
| 76 | 22S135364 | BHAVYA BV                          |
| 77 | 22S135394 | T S BHUVANESHWARAN                 |
| 78 | 22S139024 | BHUVANESHWARI P                    |
| 79 | 22S135066 | BHUVANESHWER S                     |
| 80 | 22S135034 | BILLE NARENDRA                     |
| 81 | 22S135445 | BODDU LAXMAN LOKESH                |
| 82 | 22S135446 | BODDU SRIRAM RAKESH                |
| 83 | 22S135412 | BOLLA SRIRAM NARASIMHA<br>CHOWDARY |
| 84 | 22S135126 | BOMMAREDDY PRAVEEN REDDY           |
| 85 | 22S135361 | A CANALIGA                         |
| 86 | 22S135185 | CARAL MARKS. G                     |
| 87 | 22S135077 | CHANDRASEKAR T                     |
| 88 | 22S135385 | CHARVY AMRISHA.J                   |
| 89 | 22S135269 | CHEDUGUNDI VINAY                   |
| 90 | 22S135239 | CHENNURI PAVAN KUMAR               |

|     |           |                                |
|-----|-----------|--------------------------------|
| 91  | 22S135259 | CHETHANA P                     |
| 92  | 22S135408 | CHIDIPUDI VIJAYAVARDHAN REDDY  |
| 93  | 22S135431 | CHILAKALA AJAY MAHESWARA REDDY |
| 94  | 22S135061 | CHIRANJEEVI S                  |
| 95  | 22s135376 | CHITTUMURI NARENDRA BHUPAL     |
| 96  | 22S135162 | CLAMANT TITUS C M              |
| 97  | 22S135196 | DANIEL STANLYRAJ.X             |
| 98  | 22S135291 | DARRSHINI V B                  |
| 99  | 22S135057 | DARUR NANDA GOPAL              |
| 100 | 22S135326 | DASHWANTH . P                  |
| 101 | 22S135179 | DAVID VIMAL RAJ.S              |
| 102 | 22S135390 | DEBADATTA BHOWMIK              |
| 103 | 22S135088 | DEEBIKA G                      |
| 104 | 22S135112 | DEEPAK R                       |
| 105 | 22S135043 | DEEPAPRIYAA T                  |
| 106 | 22S139027 | DEEPIKA K                      |
| 107 | 22S135416 | DEEPIKA G                      |
| 108 | 22S135082 | DEEPIKA KUMARI                 |
| 109 | 22S139013 | DHAMINI M J                    |
| 110 | 22S131017 | M DHANUSH                      |
| 111 | 22S135249 | DHANUSH MOORTHY M              |
| 112 | 22S135062 | DHARSHAN K                     |
| 113 | 22S135286 | DHARUN RAJ R                   |
| 114 | 22S135194 | DHEERAJ .T                     |
| 115 | 22S135150 | DHIVYA R                       |
| 116 | 22S135393 | DILLI GANESH M                 |
| 117 | 22S135024 | M DINESH                       |
| 118 | 22S135012 | DINESH KANNAA R C              |
| 119 | 22S135410 | DINESH KUMAR R                 |
| 120 | 22S139020 | DIVYA R                        |
| 121 | 22S135257 | DIVYASRI S                     |
| 122 | 22S131008 | DORANALA SATHWIK SARMA         |
| 123 | 22S135496 | DOREPALLI UDAY KUMAR           |
| 124 | 22S135356 | DUPPALA NEERAJ ARJUN NAIDU     |

|     |           |                               |
|-----|-----------|-------------------------------|
| 125 | 22S135332 | DWARAMPUDI RAJENDRA SAI REDDY |
| 126 | 22S135144 | EDDALA CHARAN                 |
| 127 | 22S139029 | EVANGELIN SELVARASI. D        |
| 128 | 22S135298 | EZHILAN A.R                   |
| 129 | 22S135004 | FARHATH JABEEN N              |
| 130 | 22S135212 | VARUN SIDDHARTH GADAMSETTI    |





## 10. Experimental Learning of Data Structures through C Programming



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**SCHOOL OF ELECTRICAL AND ELECTRONICS**  
**Department of Electronics and Communication Engineering**  
**Experimental Learning of Data Structures through C Programming**

**Date: 20.03.2023 to 25.03.2023(9.00AM - 3.15 PM)**

| Program Content                                                                                                                                                                          | Resource Persons                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Array Handling</li> <li>Operations in Stack and Queue</li> <li>Recursive Functions</li> <li>Searching and Sorting</li> <li>Linked List</li> </ul> | <ul style="list-style-type: none"> <li>Dr. N. M. Nandhitha</li> <li>Dr. S. Emalda Roslin</li> <li>Dr. S. Barani</li> <li>Dr. N.R.Krishnamoorthy</li> <li>Dr. M.A. Muthiah</li> </ul> |

**CHIEF PATRONS**

Dr. Mariazeena Johnson  
*Chancellor*

Dr. Marie Johnson  
*President*

Mr. J. Arul Selvan  
*Vice president*

Ms. Maria Bernadette Tamilarasi  
*Vice president*

Ms. Maria Catherine Jayapriya  
*Vice president*

**PATRONS**

Dr. T. Sasipraba,  
*Vice Chancellor*

Dr. E. Logashantmugam,  
*Pro Vice Chancellor*

Dr. G. Sundari,  
*Director- Administration*

**CONVENORS**

Dr. N. M. Nandhitha, Prof. & Dean / SoEE  
Dr. T. Ravi, Head/ ECE

**ORGANIZERS**

Dr. N. M. Nandhitha, Prof. & Dean / SoEE  
Dr. S. Emalda Roslin, Prof. /ECE

**E-Certificate will be provided to all participants**

### List of Participants

| SL.NO | ROLL NO   | NAME OF THE STUDENT |
|-------|-----------|---------------------|
| 1     | 21S131015 | JEFRIN KENNEDY J    |

|    |           |                                   |
|----|-----------|-----------------------------------|
| 2  | 21S135246 | JEMEEL RAKEES A                   |
| 3  | 21S135218 | JESL G                            |
| 4  | 21S139052 | C JEYA KANAGA LAKSHMI             |
| 5  | 21S135180 | JIBU ALEX KOSHY                   |
| 6  | 21S135310 | JINKALA VENKATA SIVANI            |
| 7  | 21S135274 | JONNALAGADDA ESWAR                |
| 8  | 21S135199 | JONUBOYINA RAMESH                 |
| 9  | 21S131010 | KACHANA SISEENDRA REDDY           |
| 10 | 21s135391 | KADAMBALA GAUTAM                  |
| 11 | 21S135327 | KADAPPAGARI VENUMADHAV            |
| 12 | 21S135042 | KADIRE YASHWANTH REDDY            |
| 13 | 21S135370 | KADIYALA SOMESWAR                 |
| 14 | 21S135048 | KADIYALA SRI HARI                 |
| 15 | 21S135254 | KAILAS V RAJENDRAN                |
| 16 | 21S135276 | KAKANI PRANEETH                   |
| 17 | 21S135102 | KALACHARLA VENKATA SAI            |
| 18 | 21S135260 | KALAGARLA SANATH KUMAR            |
| 19 | 21S135261 | KALAGARLA YASWANTH KUMAR          |
| 20 | 21S135230 | KALAVALA HAREESH                  |
| 21 | 21S135474 | KALAVAPUDI SAI ABHINAY KASHYAP    |
| 22 | 21S135463 | KALLA RAVI TEJA SAI SATYANARAYANA |
| 23 | 21S135215 | KALPANA SRI D                     |
| 24 | 21S135070 | KAMALESHWER M                     |
| 25 | 21S135012 | KAMALI K                          |
| 26 | 21S135272 | KAMBAN T G K                      |
| 27 | 21S135047 | KAMESH S                          |
| 28 | 21S135470 | KANDUKURI GNANESWAR REDDY         |
| 29 | 21S135184 | KANDULA ARAVINDU REDDY            |
| 30 | 21S135237 | KANDULA VENKATA BHARGAVA REDDY    |
| 31 | 21S135031 | KANIGOLLA RAMA SAI AVINASH        |
| 32 | 21S135262 | KANMANI RM                        |
| 33 | 21s135416 | KANNEBOINA LOKESH                 |
| 34 | 21s135414 | KANNEBOINA VENU PRASAD            |
| 35 | 21S135429 | KARAMALA VENUSAGAR                |
| 36 | 21S135241 | KARNATI SURYA PRAKASH REDDY       |
| 37 | 21S135227 | KARRI SREE VARSHINI               |
| 38 | 21S135551 | KARTHICK R                        |
| 39 | 21S139062 | R.KARTHIGA                        |
| 40 | 21S139035 | V KARTHIK                         |

|    |           |                                    |
|----|-----------|------------------------------------|
| 41 | 21S135057 | KARTHIK KAMESHWARAN M              |
| 42 | 21S135041 | KATTA GOWTHAM GANESWARA SWAMI      |
| 43 | 21S135348 | KATTA KOWSHIK REDDY                |
| 44 | 21S135023 | KAVYA M                            |
| 45 | 21S135315 | A.KAVYA SREE                       |
| 46 | 21S135135 | KIRAN KUMAR G                      |
| 47 | 21S135072 | KISHORE G                          |
| 48 | 21S131020 | KISHORNATH A                       |
| 49 | 21s135331 | KODALI SAI DILEEP                  |
| 50 | 21s135434 | KODAVATI HEMANTH DURGA PAVAN KUMAR |
| 51 | 21S139049 | S KOKILA                           |
| 52 | 21S139005 | KOKILA S                           |
| 53 | 21S135486 | KOLA THAPAN SATYA MADHAV           |
| 54 | 21S135156 | KOLIPARTHI NAGA SRAVYANTH          |
| 55 | 21S135526 | KOLLI MADHAVA REDDY                |
| 56 | 21S135448 | KOLLURI KRISHNA PRASAD             |
| 57 | 21S135466 | KOMMADDI SREE AKARSH               |
| 58 | 21S135520 | KONCHA BHARATH KUMAR REDDY         |
| 59 | 21S135193 | KONCHADA RAKESH                    |
| 60 | 21S135453 | KONDAPURAM HARIKIRAN REDDY         |
| 61 | 21S135483 | KONDE MANIKANTA                    |
| 62 | 21S135326 | KOOLLA SRIKAR                      |
| 63 | 21S135361 | KOPPARAPU BHARATH                  |
| 64 | 21S135195 | KORRA SAI KIRAN                    |
| 65 | 21S135330 | KORUKONDA PAVAN KUMAR              |
| 66 | 21S135107 | KOTTANA SATYA SWAROOP              |
| 67 | 21S135171 | KOWTARAPU HARISH                   |
| 68 | 21S135085 | J KRISHNA NIVASH                   |
| 69 | 21S135449 | KRISHNANUJA DATTA                  |
| 70 | 21s135417 | KSHATRIYA SANTHOSH KUMAR SINGH     |
| 71 | 21s135405 | KSIHORE E                          |
| 72 | 21S135424 | KUCHIPUDI VENKATESH                |
| 73 | 21S135222 | KUKATLA GOPI KRISHNA               |
| 74 | 21S135163 | KUMARAN G                          |
| 75 | 21S135471 | KURRA NAVEEN KUMAR                 |
| 76 | 21s135427 | KURUVA BHARATH KUMAR               |
| 77 | 21S135077 | LAKSHANYA S                        |
| 78 | 21S135168 | T S LAKSHMAN CHAITHANYA            |
| 79 | 21S135356 | LALITHA SUCHARITA MANGALI          |

|     |           |                                            |
|-----|-----------|--------------------------------------------|
| 80  | 21S139004 | LEKHASRI V                                 |
| 81  | 21S135049 | LEVI DANIEL T                              |
| 82  | 21S135319 | LINGALA BHARATH SIMHA REDDY                |
| 83  | 21S135040 | LITHIKA R J                                |
| 84  | 21S135358 | LOGESHWAR K                                |
| 85  | 21S135505 | N LOHITH                                   |
| 86  | 21S139018 | LOKESHWARI P                               |
| 87  | 21S135375 | LOLABHATTU S S A. BHUJANGA RAJU            |
| 88  | 21S135462 | MADDIRALA HARSITH KUMAR                    |
| 89  | 21S139003 | MAGESWARI P                                |
| 90  | 21S135225 | MAHANANDI KARTHIKREDDY                     |
| 91  | 21S135190 | MAHESH G                                   |
| 92  | 21S135208 | MALLA JEEVAN KUMAR                         |
| 93  | 21s135441 | MALLIDI BHARGAV CHOWDARY                   |
| 94  | 21S135360 | MALLISETTY KARTHIK                         |
| 95  | 21S135213 | MANCHALA VINAY KUMAR                       |
| 96  | 21S131018 | MANCHIKALAPATI SIVAPRIYA                   |
| 97  | 21S135019 | MANDAVA ESWAR                              |
| 98  | 21S135489 | MANIKANDAN S                               |
| 99  | 21S135011 | MANIKANTA SAI TEJA GUNDAVARAPU             |
| 100 | 21S135044 | MANOJ N                                    |
| 101 | 21S135080 | MANOJ S                                    |
| 102 | 21S139019 | MARADANI JAYANTH DATHA                     |
| 103 | 21S135342 | MARISETTY NAGA JEEVESH RANJAN GOUD         |
| 104 | 21S135421 | MARREDDY. NIKHIL KUMAR REDDY               |
| 105 | 21S135280 | MARRI SREE HARSHA                          |
| 106 | 21S135183 | MARSTON CHRISTOPHER JEFFRIES               |
| 107 | 21s135435 | MASARAM RAVI KIRAN                         |
| 108 | 21S135428 | MATTA.NARENDRA                             |
| 109 | 21S135481 | MAYANK SINHA                               |
| 110 | 21S135036 | MAYUR RAVIKUMAR SUDIKSHA                   |
| 111 | 21S135542 | MEDAM SRIJA                                |
| 112 | 21S135256 | MEDAPATI HEMANTH SATYANARAYANA REDDY       |
| 113 | 21S135106 | MEDICHERLA VENKATA SRI SATYANARAYANA REDDY |
| 114 | 21s135445 | MEESALA SAI BALA SURYA TEJASVI             |
| 115 | 21S135251 | MEESALA SWATHI                             |
| 116 | 21S135138 | D MEGHA                                    |
| 117 | 21S135122 | MELVIN JOSHUA R                            |
| 118 | 21S135503 | MERLIN S                                   |

|     |           |                                 |
|-----|-----------|---------------------------------|
| 119 | 21s135442 | MINUMANURI KOTLO HEMALATHA      |
| 120 | 21S135271 | MINUMANURI KOTLO KRISHNA VAMSHI |
| 121 | 21s135439 | MODHUGU PALEM KALYAN SAI REDDY  |
| 122 | 21S139045 | MOGULURI PRAVEEN                |
| 123 | 21S135061 | MOHAMMED MUZZAMMIL A            |
| 124 | 21S135073 | MOHAMMED SUHAIL A               |
| 125 | 21S139067 | MOHANA K R                      |
| 126 | 21S135079 | MOLAKALAGIRI SAI SIVA PRASAD    |
| 127 | 21S135104 | MONIKA SRI K                    |
| 128 | 21S135549 | MONISH P                        |
| 129 | 21S135120 | MONISH TEJ S                    |
| 130 | 21S135349 | MOULEESHWARAN S                 |
| 131 | 21S135203 | MOUNABRATA BAIDYA               |
| 132 | 21S135095 | MUCHIVOLU NANDA                 |
| 133 | 21S131024 | MUDETHULA SRI DHANUSH           |
| 134 | 21S135127 | MUGA BHUVANESWAR REDDY          |
| 135 | 21S135108 | MUKESHWARAN B                   |
| 136 | 21S135392 | MUKKALA SHIVA SAI               |
| 137 | 21s135397 | MULE HEMANTH REDDY              |
| 138 | 21S135477 | MUNGARA NAGAVIGNESH             |
| 139 | 21S139020 | MUSTIPALLE VASAVI               |
| 140 | 21S135015 | MUTTALA SASHANK REDDY           |
| 141 | 21S135289 | MYCHARLA SANJAY                 |
| 142 | 21S135021 | MYDUKURU ABHIGNA                |
| 143 | 21S135293 | MYLAPALLI BHANU PRASAD          |
| 144 | 21S135488 | NADUKUDUTHI PRANEETH            |
| 145 | 21S135226 | NAGA BABU GADHAMSETTI           |
| 146 | 21S135051 | NAGAPPAGARI RAKSHITHA           |
| 147 | 21S135340 | NAGILLA TEJASREE                |
| 148 | 21S135032 | NAGIREDDY KRISHNA SATYA PAVAN   |
| 149 | 21S135450 | NALLABOTHULA VINAY CHOWDARY     |
| 150 | 21S135154 | NALLAGONDU CHANDU KUMAR REDDY   |



# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)

[www.sathyabama.ac.in](http://www.sathyabama.ac.in)

Accredited with Grade "A++" by NAAC | 12B UGC | Approved by AICTE



**SCHOOL OF ELECTRICAL AND ELECTRONICS**

**Department of Electronics and Communication Engineering**

## *Certification of Completion*

This is to certify that

**KALAVALA HAREESH** from Sathyabama Institute of Science and Technology has successfully completed the value added course on **"Experimental Learning of Data Structures Through C Programming"** from 03.04.2023 to 30.04.2023 organized by department of Electronics and Communication Engineering, School of Electrical and Electronics, Sathyabama Institute of Science and Technology, Chennai.

Head of the Department  
**Dr.T.RAVI**

Convenor  
**Dr.S.Emalda Roslin**

Prof & Dean  
**Dr.N.M.Nandhitha**

## 11. Experimental Learning of Data Structures through C Programming



# SATHYABAMA

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### SCHOOL OF ELECTRICAL AND ELECTRONICS

Department of Electronics and Communication Engineering  
Experimental Learning of Data Structures through C Programming

**Date: 27.03.2023 to 01.04.2023(9.00AM - 3.15 PM)**

| Program Content                                                                                                                                                                          | Resource Persons                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Array Handling</li> <li>Operations in Stack and Queue</li> <li>Recursive Functions</li> <li>Searching and Sorting</li> <li>Linked List</li> </ul> | <ul style="list-style-type: none"> <li>Dr. N. M. Nandhitha</li> <li>Dr. S. Emalda Roslin</li> <li>Dr. S. Barani</li> <li>Dr. N.R.Krishnamoorthy</li> <li>Dr. M.A. Muthiah</li> </ul> |

CHIEF PATRONS

Dr. Mariazeena Johnson  
*Chancellor*

Dr. Marie Johnson  
*President*

Mr. J. Arul Selvan  
*Vice president*

Ms. Maria Bernadette Tamilarasi  
*Vice president*

Ms. Maria Catherine Jayapriya  
*Vice president*

PATRONS

Dr. T. Sasipraba,  
*Vice Chancellor*

Dr. E. Logashanmugam,  
*Pro Vice Chancellor*

Dr. G. Sundari,  
*Director- Administration*

CONVENORS

Dr. N. M. Nandhitha, Prof. & Dean / SoEE  
Dr. T. Ravi, Head/ ECE

ORGANIZERS

Dr. N. M. Nandhitha, Prof. & Dean / SoEE  
Dr. S. Emalda Roslin, Prof. /ECE

E-Certificate will be provided to all participants

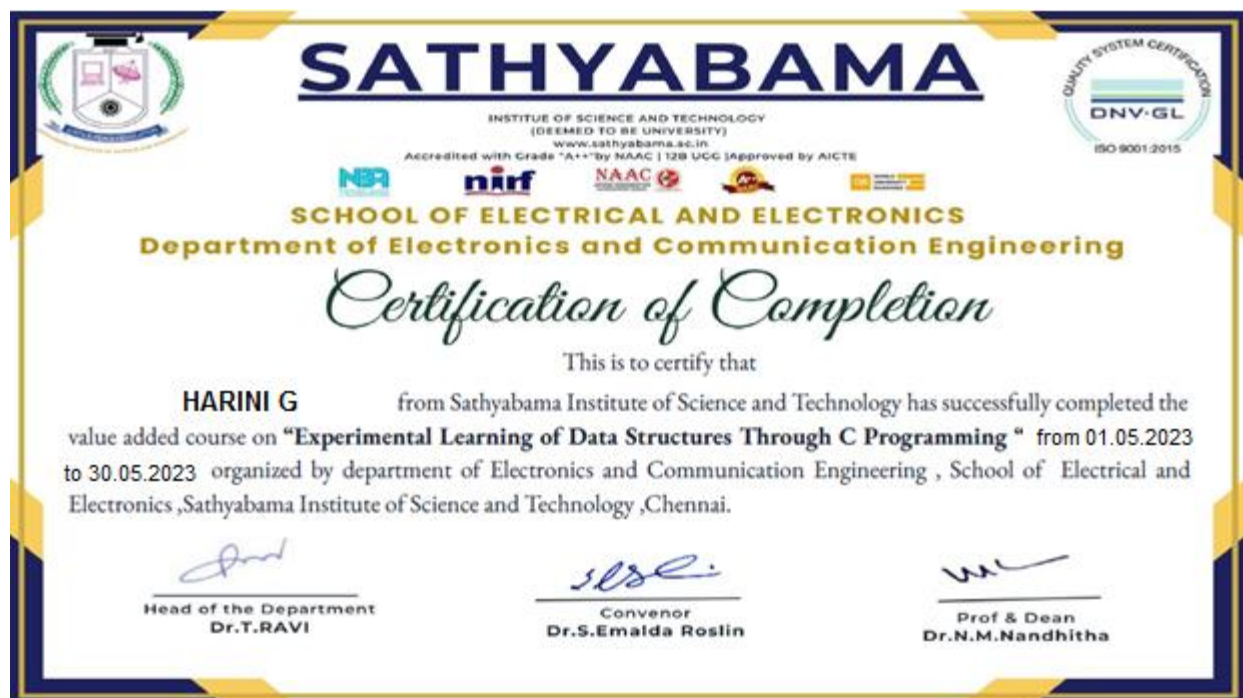
**List of Participants**

| SL.NO | ROLL NO   | NAME OF THE STUDENT           |
|-------|-----------|-------------------------------|
| 1     | 22S135316 | GAJENDRAN K                   |
| 2     | 22S135183 | GANESH KUMAR S                |
| 3     | 22S135389 | GANGALA PRANEETH              |
| 4     | 22S135448 | GANGUMALLA MANISH REDDY       |
| 5     | 22S135205 | R. GAURAV                     |
| 6     | 22S135344 | A. GAYATHRI                   |
| 7     | 22S135369 | GEESALA BALAJI                |
| 8     | 22S135098 | GOKUL R                       |
| 9     | 22S135320 | R A GOKUL                     |
| 10    | 22S135243 | GOKUL J                       |
| 11    | 22S135495 | GOKUL VIGASH. J               |
| 12    | 22S135045 | GOKULAKRISHNAN S              |
| 13    | 22S135347 | GOKULNATH V                   |
| 14    | 22S135254 | GOKULNATH V                   |
| 15    | 22S135373 | T.GOKUL SHARMA                |
| 16    | 22S139015 | GOPIKA.M                      |
| 17    | 22S135374 | GORLA VEERA VENKATA SAI MANOJ |
| 18    | 22S135261 | NAVEEN GOSU                   |
| 19    | 22S135166 | GOUTHAM. T                    |
| 20    | 22S135409 | GOUTHAM D                     |
| 21    | 22S135318 | GOWRA BHARAT                  |
| 22    | 22S135084 | GUNA K                        |
| 23    | 22S135355 | GURU IYAA R                   |
| 24    | 22S135245 | GURUBARAN. B                  |
| 25    | 22S135091 | HARIHARAN S                   |
| 26    | 22S135231 | HAARISHWARAN G                |
| 27    | 22S135006 | HANNA ELSA JAIJU              |
| 28    | 22S135192 | HARI AKASH V S                |
| 29    | 22S135497 | HARIHARAN S                   |
| 30    | 22S139023 | HARIHARAN. K                  |
| 31    | 22S135551 | M HARIHARAN                   |
| 32    | 22S135094 | HARINI G                      |

|    |           |                            |
|----|-----------|----------------------------|
| 33 | 22S135343 | HARINI D                   |
| 34 | 22S135453 | HARINI S                   |
| 35 | 22S135467 | HARINI S                   |
| 36 | 22S135119 | HARISH S                   |
| 37 | 22S135460 | Y. HARISH COLEPH           |
| 38 | 22S135306 | HARISH KRISHNA A           |
| 39 | 22S135341 | P.V.N.HARSHA               |
| 40 | 22S135188 | HARSHAVARTHINI J R         |
| 41 | 22S135111 | HAZIQ ADNAN A              |
| 42 | 22S135156 | HEMAVARTHINI. M            |
| 43 | 22S138002 | IMMACULATE AISHWARYA F     |
| 44 | 22S135485 | S INDU SREE                |
| 45 | 22S139003 | INDUMATHI.M                |
| 46 | 22S135104 | INJAVARAPU GOWRI SHANKAR   |
| 47 | 22S135230 | JAI SURYA. E               |
| 48 | 22S135153 | JAIGANESH V                |
| 49 | 22S135247 | JAIGANESH V                |
| 50 | 22S135101 | JANAARTHANAN K C           |
| 51 | 22S135379 | JANNI NITISH GOMANGO       |
| 52 | 22S135436 | JARINA. J. A               |
| 53 | 22S135093 | JAYAPRASATH S              |
| 54 | 22S135020 | JAYAPRAKASH J              |
| 55 | 22S135114 | JAYASRI M                  |
| 56 | 22S135400 | JAYAVARDHAN YELAMANCHILI   |
| 57 | 22S135003 | R K JEEVABHARATHI          |
| 58 | 22S135432 | JEEVANANTHAM.M             |
| 59 | 22S135482 | JENISH. B                  |
| 60 | 22S135455 | JIDUGU SAI                 |
| 61 | 22S135293 | JISHNU JAYANTH K           |
| 62 | 22S135044 | JONNA LAKSHMI SAI          |
| 63 | 22S139018 | JOY BLESSY R               |
| 64 | 22S131005 | JYOTHIRMAYEE A S           |
| 65 | 22S135353 | KAFFIN MAX WELL R          |
| 66 | 22S135065 | KAGITA SAPPIRA             |
| 67 | 22S135297 | KAKARLA DORA BABU CHOWDARY |

|     |           |                                       |
|-----|-----------|---------------------------------------|
| 68  | 22S135054 | KAKE VARSHINI                         |
| 69  | 22S135058 | KAMBALA NARENDRA KUMAR                |
| 70  | 22S135133 | S KAMESH                              |
| 71  | 22S135418 | KANDRICK SINGH N                      |
| 72  | 22S135022 | KANISHYA B S                          |
| 73  | 22S135429 | KANNEBOINA MADHU                      |
| 74  | 22S135272 | KARTHIK V                             |
| 75  | 22S135235 | KARTHIKA RAMASAMY SENTHILKUMAR        |
| 76  | 22S131009 | KARUTURI VARSHITHA                    |
| 77  | 22s135178 | KATAKAMVARIPALLI SHAIK MOHAMMED AKRAM |
| 78  | 22S135127 | KATHIRESH T                           |
| 79  | 22S135241 | KEERTHI VASAN S                       |
| 80  | 22S135404 | KEERTHIESHVAR T R                     |
| 81  | 22S135164 | KHAVIN K J                            |
| 82  | 22S131007 | KISHORE R K                           |
| 83  | 22S135289 | KISHORE KUMAR S                       |
| 84  | 22S135226 | SRI RAMA ANUDEEP KOMPELLA             |
| 85  | 22S135213 | KOTAPATI DEEPIKA                      |
| 86  | 22S135014 | KOUSHIKA R                            |
| 87  | 22S139001 | KOUSHIKA V                            |
| 88  | 22S135186 | KRANTHI KUMAR P                       |
| 89  | 22S135128 | KRITHIK ARUN J                        |
| 90  | 22S135479 | KUPPAGIRI. AVINASH REDDY              |
| 91  | 22S135421 | LAKSHMI PRASAD K                      |
| 92  | 22S135016 | LALITH KUMAR K                        |
| 93  | 22S135280 | LALITH VISHNU V                       |
| 94  | 22S139009 | LATCHAKA R K                          |
| 95  | 22S135042 | LAVANYA V                             |
| 96  | 22S135484 | LEELA YASWANTH A                      |
| 97  | 22S135146 | P LILIAN                              |
| 98  | 22S135413 | LINGESWARAN A                         |
| 99  | 22S135388 | LOGAPRIYA J                           |
| 100 | 22S135021 | LOGESHWAR H                           |
| 101 | 22S135143 | LOGESHWARAN L                         |

|     |           |                                     |
|-----|-----------|-------------------------------------|
| 102 | 22S135080 | MACHEPALLI VENKATAKALYAN            |
| 103 | 22S135387 | MADDULA ABHISHEK                    |
| 104 | 22S135478 | MADELIENE JENNILIA .M               |
| 105 | 22S135137 | MADESH.S                            |
| 106 | 22S135005 | MADHAVAN M                          |
| 107 | 22S139021 | MADHUMITHA S                        |
| 108 | 22S135023 | MADHUMITHA M                        |
| 109 | 22S139017 | MADHUVARSHINI.V                     |
| 110 | 22S135317 | MAHALAKSHMI A                       |
| 111 | 22S135181 | MAHENDRAN S                         |
| 112 | 22S131018 | CHINNA THIMMIREDDIGARI MAHESH REDDY |
| 113 | 22S135338 | MALAR VIZHI.A                       |
| 114 | 22S135071 | MANASA M                            |
| 115 | 22S135085 | MANIKANDAN P                        |
| 116 | 22S135009 | MANISH M                            |
| 117 | 22S135300 | MANISH T                            |
| 118 | 22S135395 | MANJUSHREE S                        |
| 119 | 22S135375 | MANNE.GANESH KANAKARAO              |
| 120 | 22S135440 | MANOJ M                             |
| 121 | 22S135488 | MANOVA PRASENNA RAJ D               |
| 122 | 22S135465 | MANUSANI NAGENDRA SHETTY            |
| 123 | 22S135492 | MEDIDINNE SIVA                      |
| 124 | 22S135430 | MEDIKONDA PRASHANTH                 |
| 125 | 22S135028 | M MITHUN                            |
| 126 | 22S135206 | V.M.MOHAMED ARSHATH                 |
| 127 | 22S131006 | MOHAMED FAWAZ D                     |
| 128 | 22S135310 | MOHAMMED ATHEEB M                   |
| 129 | 22S135189 | MOHAMMED IMRAN I                    |
| 130 | 22S135256 | HM MOHAMED MARZOOQ                  |



## 12. Physical Custom IC Design



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### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ORGANIZES VALUE ADDED PROGRAM  
ON

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## "Physical Custom IC Design"

(For ECE Final Year Hostel Students)

04.01.2023 to 31.01.2023

TIME: 3.15PM TO 4.30PM

| Course Content                                                                                                                                                                                                                                   | Resource Persons                                                                                                                               | Course Outcomes                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Introduction to Physical Custom IC Design</li> <li>• Design Entry and Schematic Capture</li> <li>• Layout Design and Floorplanning</li> <li>• Physical Verification and Design Rule Checking</li> </ul> | <p><b>Dr. T. Ravi</b></p> <p><b>Dr V Balamurugan</b></p> <p><b>Dr Mathan N</b></p> <p><b>Dr Muthiah. M. A</b></p> <p><b>Ms Shamini G I</b></p> | <p><b>At the end of the course students can able to</b></p> <ul style="list-style-type: none"> <li>• Use Mentor Graphics tool for Physical Custom IC design</li> <li>• Understand the physical design Flow</li> <li>• Create and optimize custom IC layouts</li> </ul> |

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| Chief Patrons                                                                                                                                                                                                                                                         | Register @                    | Venue @                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------|
| <p><b>Dr. Mariazeena Johnson,</b> Chancellor</p> <p><b>Dr. Marie Johnson,</b> President</p> <p><b>Mr. J Arul Selvan,</b> Vice President</p> <p><b>Ms. Maria Bernadette Tamilarasi,</b> Vice President</p> <p><b>Ms. Maria Catherine Jayapriya,</b> Vice President</p> | <p><b>bit.ly/pc_icd23</b></p> | <p><b>VLSI DESIGN LAB</b><br/>(ECE Dept. Second Floor)</p> |

| Patrons                                                                                                                                                     | Conveners                                                                                 | Organizers                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Dr T Sasipraba,</b> Vice Chancellor</p> <p><b>Dr. E. Logashanmugam,</b> Pro Vice Chancellor</p> <p><b>Dr. G. Sundari,</b> Director-Administration</p> | <p><b>Dr. N. M. Nandhitha,</b> Dean, School of EE</p> <p><b>Dr. T. Ravi,</b> HOD, ECE</p> | <p><b>Dr. T.Ravi,</b> HOD, ECE</p> <p><b>Dr. Mathan. N,</b> AP, ECE</p> <p><b>Dr. Muthiah. M. A,</b> AP, ECE</p> <p><b>Ms .Shamini.G.I,</b> AP, ECE</p> |

e-Certificate will be issued for all Participants

**Session Plan:**

| Session | Topics to be covered                                                                                                                                                                                           | No. of Hours |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1       | <b>Introduction to VLSI :</b> Overview of VLSI Back End flow, Introduction to IC fabrication process, Design rules and physical design constraints, Basic concepts of physical design automation tools         | 6            |
| 2       | <b>COMS Device Fundamentals:</b> Introduction to CMOS technology, MOS transistor theory and characteristics, CMOS inverter and logic gates, Scaling principles in VLSI technology                              | 6            |
| 3       | <b>VLSI Layout Design :</b> Introduction to layout design rules and guidelines, Stick diagrams and symbolic layout, Layout styles: standard cell, gate array, and FPGA, Hands-on layout design using CAD tools | 5            |
| 4       | <b>VLSI Circuit Simulation:</b> Introduction to SPICE simulation, Transient, DC, and AC analyses, Monte Carlo analysis for process variations, Noise analysis and reliability considerations                   | 5            |
| 5       | <b>VLSI Physical Verification:</b> Design rule checking (DRC), Layout vs. schematic (LVS) verification, Parasitic extraction and simulation, Tapeout preparation and foundry interactions                      | 5            |
| 6       | <b>VLSI Project:</b> A substantial project involving complete VLSI back end flow, Students design and simulate a small-scale chip, Emphasis on practical implementation and problem-solving                    | 5            |

**Course Outcome:**

After completing this course, the students will be able to, Draw a flow diagram of the entire design flow and explore the entire ASIC design flow process, Identify the distinction between Digital IC design, verification, and implementation, Recognize the different stages of front-end design and verification

**List of Participants**

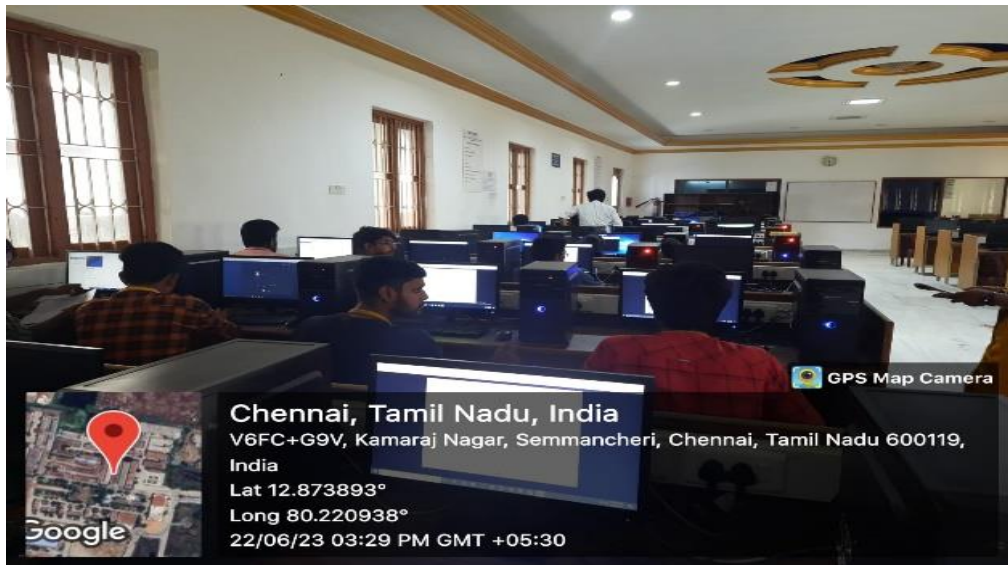
| SL.NO | ROLL NO   | NAME OF THE STUDENT                |
|-------|-----------|------------------------------------|
| 1     | 19S135068 | KURAPATI SHAKTHI NAGA GOPI. K      |
| 2     | 19S135807 | KURUGUNTALA NISHANTH SAI           |
| 3     | 19S135575 | KURUVA ABHIRAM                     |
| 4     | 19S135162 | LAGGSETTY BHAVISHYA RAYAL          |
| 5     | 19S135028 | LAKSHAYA. J. J                     |
| 6     | 19S135831 | LAVULURI HARSHITH                  |
| 7     | 19S131050 | LEELA SURYA SAI KANDULA            |
| 8     | 19S139029 | LENKA LAKSHMI. I                   |
| 9     | 19S135062 | LIBIN. L                           |
| 10    | 19S135594 | LINGAREDDY VENKATA SAI KIRAN REDDY |

|    |           |                                          |
|----|-----------|------------------------------------------|
| 11 | 19S135029 | LOGESH. V                                |
| 12 | 19S139030 | LOGESHWARAN. R                           |
| 13 | 19S135572 | LOGESWARI. S                             |
| 14 | 19S131051 | LOHITH REDDY G V                         |
| 15 | 19S131052 | MADDALA SATYA SAI                        |
| 16 | 19S135604 | MADDELA SREE CHARAN REDDY                |
| 17 | 19S135724 | MADDIKA SAI DEEPAK REDDY                 |
| 18 | 19S135092 | MADHAVA REDDY CHALLA                     |
| 19 | 19S135602 | MADINENI JAGADEESH                       |
| 20 | 19S135030 | MADISHETTI SRIKAR GANESH                 |
| 21 | 19S135804 | MALE SAI VAMSHI                          |
| 22 | 19S135731 | MALLAMPALLI PHANICHANDER                 |
| 23 | 19S135031 | MALLAVARAPU SUNIL KUMAR                  |
| 24 | 19S139031 | MAMIDI PAVAN VENKATA SRI SATYA SAI KUMAR |
| 25 | 19S135133 | MANAM ANIL KUMAR                         |
| 26 | 19S135721 | MANASA. G                                |
| 27 | 19S135583 | MANDALA JAGADEESH                        |
| 28 | 19S135632 | MANDALA VEERA VENKATA MANEESH            |
| 29 | 19S135628 | MANDARAPU KRISHNA SUMANTH                |
| 30 | 19S135643 | MANEPALLI AVINASH                        |
| 31 | 19S131053 | MANI MOZHI. R                            |
| 32 | 19S135829 | MANOJ KUMAR NOWKATLA                     |
| 33 | 19S135661 | MANOJ RAO. J                             |
| 34 | 19S135032 | MANOJ SAI. K                             |
| 35 | 19S135824 | MANTHA VKSR VEDA SAMHITHA                |
| 36 | 19S135033 | MARKANDEY                                |
| 37 | 19S135584 | MARREDDY ANUHYA                          |
| 38 | 19S135813 | MEKA HARSHA VARDHAN                      |
| 39 | 19S131054 | MEKA LIKHITH KUMAR                       |
| 40 | 19S135641 | MELLAMPUTI HARSHA VARDHAN                |
| 41 | 19S135569 | METTU HARISH                             |
| 42 | 19S135691 | MITTA AJAY KUMAR REDDY                   |
| 43 | 19S135034 | MOHAMMAD THANISHA VALLI                  |
| 44 | 19S135619 | MOLUGURI AKASH. M                        |
| 45 | 19S135732 | MOTHE RAKESH                             |
| 46 | 19S135595 | MUDDANABOINA SAI DINESH                  |
| 47 | 19S135647 | MUDETTULA AKHIL                          |
| 48 | 19S131088 | MUDUMBA SAI SATHVIKH                     |
| 49 | 19S135814 | MUHAMMADH NAZICK. A                      |
| 50 | 19S135779 | MUSANI PRANEETH                          |
| 51 | 19S135035 | NADELLA BHANU PRAKASH                    |

|    |           |                                   |
|----|-----------|-----------------------------------|
| 52 | 19S131098 | NADIMPALLI KESAVA VARMA           |
| 53 | 19S135672 | NADIPILLI KRISHNA MADHU           |
| 54 | 19S135697 | NAGA LAKSHMI. B                   |
| 55 | 19S135083 | NAGA PRASANTH. B                  |
| 56 | 19S131055 | NAGI REDDY MADHUSUDHAN REDDY      |
| 57 | 19S135069 | NALAJALA PRUDHVI                  |
| 58 | 19S135580 | NALI VENKATA GIRIDHAR             |
| 59 | 19S135810 | NALIN RAJ                         |
| 60 | 19S131094 | NALLA KESHAV                      |
| 61 | 19S131056 | NALLAGONDU HARINATH REDDY         |
| 62 | 19S135679 | NALLU MURALI KRISHNA              |
| 63 | 19S135576 | NAMBURI GOPI CHAND                |
| 64 | 19S135571 | NANDHA KISHORE. C. S              |
| 65 | 19S131057 | NANDHAKUMAR. B                    |
| 66 | 19S135616 | NANDI KRISHNARJUNA                |
| 67 | 19S131058 | NARAKALA DHEERAJ MUNI             |
| 68 | 19S135610 | NARAVA UDAY KIRAN VENKATA RAMANA  |
| 69 | 19S131059 | NEELI VIJAYA DURGA                |
| 70 | 19S135065 | NEHA. V                           |
| 71 | 19S135036 | NETHRA BALARAMAN                  |
| 72 | 19S135684 | NIMMAGADDA NAGA VENKATA SAI KUMAR |
| 73 | 19S135142 | NISHA. R                          |
| 74 | 19S135074 | NISHANTH. K                       |
| 75 | 19S135037 | NOBIN SAMUEL. P                   |
| 76 | 19S135038 | NULI SAI VAMSI                    |
| 77 | 19S131060 | PADALA SATYANARAYANA              |
| 78 | 19S139034 | PADIWARI CHARVI                   |
| 79 | 19S139035 | PADMINI. A                        |
| 80 | 19S131061 | PALACHARLA PAVANI KALYAN          |
| 81 | 19S135658 | PALEMPALLE ADI NARAYANA REDDY     |
| 82 | 19S135039 | PALLA NAGA SURESH                 |
| 83 | 19S135808 | PAMARTHI PAVAN KUMAR              |
| 84 | 19S135155 | PAMULA JAYA RAJU                  |
| 85 | 19S135599 | PARISA MAHENDRA NADH              |
| 86 | 19S131062 | PASUMARTHI SOUMYA SRI             |
| 87 | 19S135040 | PATTA SAI KUMAR REDDY             |
| 88 | 19S135714 | PATTI SEETHA                      |
| 89 | 19S135796 | PAVAN KUMAR. S                    |
| 90 | 19S135570 | PAVITHRA. T                       |
| 91 | 19S135660 | PECCHETI PRAVEEN KUMAR            |
| 92 | 19S135041 | PEDIREDLA SRI SURYA AVINASH       |

|     |           |                              |
|-----|-----------|------------------------------|
| 93  | 19S135146 | PENUPOTHULA SAI SUBRAMANIYAM |
| 94  | 19S135066 | PERAPU PAVAN KALYAN          |
| 95  | 19S135723 | PITTALA ROHAN                |
| 96  | 19S135718 | POLLAREDDY PRATHYUSHA        |
| 97  | 19S135620 | PONNAGANTI SITA RAM          |
| 98  | 19S131090 | POOLA CHAITHANYA             |
| 99  | 19S139033 | PRADHEEPA. P                 |
| 100 | 19S135668 | PRAVEEN APPAR. S             |





## 13. Physical Custom IC Design



# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)







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### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ORGANIZES VALUE ADDED PROGRAM  
ON

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## "Physical Custom IC Design"

(For ECE Final Year Hostel Students)

06.02.2023 to 04.03.2023

TIME: 3.15PM TO 4.30PM

Course Content

- Introduction to Physical Custom IC Design
- Design Entry and Schematic Capture
- Layout Design and Floorplanning
- Physical Verification and Design Rule Checking

Resource Persons

Dr. T. Ravi  
Dr V Balamurugan  
Dr Mathan N  
Dr Muthiah. M. A  
Ms Shamini G I

Course Outcomes

At the end of the course students  
can able to

- Use Mentor Graphics tool for Physical Custom IC design
- Understand the physical design Flow
- Create and optimize custom IC layouts

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Chief Patrons

**Dr. Mariazeena Johnson,** Chancellor  
**Dr. Marie Johnson,** President  
**Mr. J Arul Selvan,** Vice President  
**Ms. Maria Bernadette Tamilarasi,** Vice President  
**Ms. Maria Catherine Jayapriya,** Vice President

Register @

bit.ly/pc\_icd23

Venue @

VLSI DESIGN LAB  
(ECE Dept. Second Floor)

Conveners

**Dr. N. M. Nandhitha,** Dean, School of EE  
**Dr. T. Ravi,** HOD, ECE

Patrons

**Dr T Sasipraba,** Vice Chancellor  
**Dr. E. Logashanmugam,** Pro Vice Chancellor  
**Dr. G. Sundari,** Director-Administration

Organizers

**Dr. T.Ravi,** HOD, ECE  
**Dr. Mathan. N,** AP, ECE  
**Dr. Muthiah. M. A,** AP, ECE  
**Ms .Shamini.G.I,** AP, ECE

e-Certificate will be issued for all Participants

### List of Participants

| SL.NO | ROLL NO | NAME OF THE STUDENT |
|-------|---------|---------------------|
|-------|---------|---------------------|

|    |           |                          |
|----|-----------|--------------------------|
| 1  | 19S135140 | RAJA MANIKANDAN. P       |
| 2  | 19S139037 | RAJANA ROSHINI           |
| 3  | 19S135651 | RAKESH. K                |
| 4  | 19S131067 | RAMINENI JESWANTH        |
| 5  | 19S139038 | RAPETI CHOSHMITHA        |
| 6  | 19S131068 | REDDY SAI MANIKANTA      |
| 7  | 19S139041 | RENUGA. S                |
| 8  | 19S139039 | REVATHI. M               |
| 9  | 19S131069 | RIDDHI SINGH             |
| 10 | 19S135088 | RISHASRI. H              |
| 11 | 19S135045 | RISHAV VARMA. R          |
| 12 | 19S135702 | RIYA SINGH. J            |
| 13 | 19S135793 | ROHAN                    |
| 14 | 19S135730 | ROHAN KUMAR              |
| 15 | 19S135780 | ROHIT SOM                |
| 16 | 19S135708 | ROHITH MODEM             |
| 17 | 19S135611 | ROSHAN. S                |
| 18 | 19S135046 | RUTH BALAJI              |
| 19 | 19S135130 | SABEER                   |
| 20 | 19S135812 | SADA SIVAIAH             |
| 21 | 19S135715 | SADANALA SIVA MANIKANTA  |
| 22 | 19S135662 | SAI DINESH. B            |
| 23 | 19S135776 | SAI HARSHA VARDHAN YADAV |
| 24 | 19S131070 | SAIDU GOWTHAM KUMAR      |
| 25 | 19S135063 | SAKTHI AISHWARYA. R      |
| 26 | 19S135607 | SALADI VENKAT AKSHAY     |
| 27 | 19S135157 | SALMAN FAARIS            |
| 28 | 19S135094 | SAMPATH KUMAR KADA. P    |
| 29 | 19S135132 | SANAMSETTY SAI           |
| 30 | 19S139043 | SANDU PRAVALLIKA         |
| 31 | 19S139044 | SANGEETHA. K             |
| 32 | 19S135645 | SANI SATHWIKA VIJAY      |
| 33 | 19S135154 | SANJAY KUMAR KORRAPATI   |
| 34 | 19S135071 | SANJAY KUMAR. S          |
| 35 | 19S135164 | SANKARA NARAYANA         |
| 36 | 19S139045 | SANTHIYA. J              |
| 37 | 19S135047 | SARAN. S                 |
| 38 | 19S135048 | SASIDHAR REDDY R         |
| 39 | 19S135830 | SATHISH. J               |
| 40 | 19S135049 | SATHISH KUMAR. G         |
| 41 | 19S139046 | SATHYA RUPA. S           |

|    |           |                         |
|----|-----------|-------------------------|
| 42 | 19S139061 | SATWIK VINAY TEJA       |
| 43 | 19S135587 | SAVITHA. R              |
| 44 | 19S131072 | SEGU SREEHARI. S        |
| 45 | 19S139047 | SETTIPALLI NAGA PRANAVI |
| 46 | 19S135050 | SEYED AMEER SALMAN      |
| 47 | 19S138001 | SHAHIN ROJAR. J         |
| 48 | 19S139001 | SHAHITHA BANU. A        |
| 49 | 19S135114 | SHAHUKARI HEMANTH       |
| 50 | 19S139040 | SHAIK AZMATHULLA        |
| 51 | 19S135159 | SHAIK FASIL             |
| 52 | 19S135582 | SHAIK ISMAIL            |
| 53 | 19S135783 | SHAIK KALEEM            |
| 54 | 19S135606 | SHAIK MASTHANVALLI      |
| 55 | 19S135817 | SHAIK NAINAZ            |
| 56 | 19S135655 | SHAIK NAYEEM PASHA      |
| 57 | 19S139048 | SHAIK SAMEER BEGE       |
| 58 | 19S135124 | SHAIKI JAVEED SULTAN    |
| 59 | 19S135792 | SHANKAR. R. R           |
| 60 | 19S135051 | SHERIN. R               |
| 61 | 19S135790 | SHIVANGI KUMARI         |
| 62 | 19S135699 | SHOBAN PRAKASH. S       |
| 63 | 19S135087 | SIDDHANT KUMAR SINGH    |
| 64 | 19S135084 | SINDHUJA. J. S          |
| 65 | 19S135613 | SINDRI REVANTH          |
| 66 | 19S135127 | SIRIGINEEDI SIRIYESU    |
| 67 | 19S135096 | SIVALASETTY ARAVID BABU |
| 68 | 19S139042 | SIVASAKTHI. S           |
| 69 | 19S131073 | SNEHA. S                |
| 70 | 19S139049 | SOLASA PARIVESH         |
| 71 | 19S135052 | SOUNDAR. P              |
| 72 | 19S135696 | SOWMIYA. N              |
| 73 | 19S139050 | SOWMIYA. P              |
| 74 | 19S139052 | SRAVANI KUMARI. T       |
| 75 | 19S139056 | SRIDHAR. U              |
| 76 | 19S131074 | SRISHKUMAR MANI. J      |
| 77 | 19S135136 | SUBASH. S. I            |
| 78 | 19S135618 | SUBHARAJA CHELLAM. A    |
| 79 | 19S135733 | SUBRAMANYAM. G. S. V    |
| 80 | 19S139017 | SUDHEER KUMAR. G        |
| 81 | 19S135163 | SUJITH KUMAR            |
| 82 | 19S135777 | SUJITHA                 |

|     |           |                              |
|-----|-----------|------------------------------|
| 83  | 19S139011 | SUKANYA. D                   |
| 84  | 19S135129 | SUNKARA KANNAYYA             |
| 85  | 19S135138 | SUNKARA LAVANYA NAGA DIVYA   |
| 86  | 19S135720 | SUNKARA SRIHARI              |
| 87  | 19S139059 | SUNKI REDDY VISHVESWAR REDDY |
| 88  | 19S135581 | SURA PAVAN KUMAR REDDY       |
| 89  | 19S135626 | SURE GANESH REDDY            |
| 90  | 19S135053 | SURENDAR. R                  |
| 91  | 19S135054 | SUSHMA SAGARIKA MIDATHANA    |
| 92  | 19S131075 | SUSHMA TEJASWI MALLELA       |
| 93  | 19S139014 | SWATHI. E                    |
| 94  | 19S131076 | TADAKAMALLA GOURAV           |
| 95  | 19S135589 | TAKULAPALLI MALLIKARJUNA     |
| 96  | 19S135055 | TALLAM VENKATA PAVAN KALYAN  |
| 97  | 19S135056 | TAMIL VASANTHAN. S           |
| 98  | 19S131077 | TAMMINEEDU SRIRAM            |
| 99  | 19S131078 | TANDAI PAVAN BHASWANTH       |
| 100 | 19S131079 | TARA UMA SAI UTTARATADI      |



## 14. Physical Custom IC Design



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INSTITUTE OF SCIENCE AND TECHNOLOGY  
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### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ORGANIZES VALUE ADDED PROGRAM  
ON

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## "Physical Custom IC Design"

(For ECE Final Year Hostel Students)

**06.03.2023 to 31.03.2023**  
**TIME: 3.15PM TO 4.30PM**

|                                                                                                                                                                                                                                                                       |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Course Content</b></p> <ul style="list-style-type: none"> <li>Introduction to Physical Custom IC Design</li> <li>Design Entry and Schematic Capture</li> <li>Layout Design and Floorplanning</li> <li>Physical Verification and Design Rule Checking</li> </ul> | <p><b>Resource Persons</b></p> <p style="text-align: center;"><b>Dr. T. Ravi</b><br/><b>Dr V Balamurugan</b><br/><b>Dr Mathan N</b><br/><b>Dr Muthiah. M. A</b><br/><b>Ms Shamini G I</b></p> | <p><b>Course Outcomes</b></p> <p style="text-align: center;"><b>At the end of the course students can able to</b></p> <ul style="list-style-type: none"> <li>Use Mentor Graphics tool for Physical Custom IC design</li> <li>Understand the physical design Flow</li> <li>Create and optimize custom IC layouts</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Chief Patrons</b></p> <p><b>Dr. Mariazeena Johnson,</b> Chancellor<br/><b>Dr. Marie Johnson,</b> President<br/><b>Mr. J Arul Selvan,</b> Vice President<br/><b>Ms. Maria Bernadette Tamilarasi,</b> Vice President<br/><b>Ms. Maria Catherine Jayapriya,</b> Vice President</p> | <p style="text-align: center;"><b>Register @</b><br/><a href="https://bit.ly/pc_icd23">bit.ly/pc_icd23</a></p> <p style="text-align: center;"><b>Venue @</b><br/><b>VLSI DESIGN LAB</b><br/>(ECE Dept. Second Floor)</p> <p style="text-align: center;"><b>Patrons</b><br/><b>Dr T Sasipraba,</b> Vice Chancellor<br/><b>Dr. E. Logashanmugam,</b> Pro Vice Chancellor<br/><b>Dr. G. Sundari,</b> Director-Administration</p> | <p style="text-align: center;"><b>Conveners</b><br/><b>Dr. N. M. Nandhitha,</b> Dean, School of EE<br/><b>Dr. T. Ravi,</b> HOD, ECE</p> <p style="text-align: center;"><b>Organizers</b><br/><b>Dr. T.Ravi,</b> HOD, ECE<br/><b>Dr. Mathan. N,</b> AP, ECE<br/><b>Dr. Muthiah. M. A,</b> AP, ECE<br/><b>Ms .Shamini.G.I,</b> AP, ECE</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**e-Certificate will be issued for all Participants**

List of Participants

| SL.NO | ROLL. NO  | NAME OF THE STUDENT                  |
|-------|-----------|--------------------------------------|
| 1     | 20S135054 | NIVASH S                             |
| 2     | 20S139012 | NIZHAMUDHIN. N                       |
| 3     | 20S135041 | OJASWINI.D                           |
| 4     | 20S135055 | PALANKI SAI KARTHIK                  |
| 5     | 20S135136 | PALLAPOTHU KARTHIK CHOWDARY          |
| 6     | 20S135092 | PALLE VENKATA BHUVANA CHANDRA REDDY  |
| 7     | 20S135137 | PALLEBOYINA VAMSI KRISHNA            |
| 8     | 20S131001 | PANDILLA NAMRATHA                    |
| 9     | 20S135165 | PARVATHAM SRIRAM                     |
| 10    | 20S135053 | PATCHIGOLLA VISTESH                  |
| 11    | 20S139047 | PATCHIPALA SATISH                    |
| 12    | 20S139013 | PAVITHRA D                           |
| 13    | 20S139004 | PAVITHRA S                           |
| 14    | 20S135116 | PEDASINGU GOWTHAM                    |
| 15    | 20S139045 | PEDIREDLASAHITHI                     |
| 16    | 20S135114 | PEELA TARUN SAI                      |
| 17    | 20S135033 | PILLAI SUHESH KRISHNA                |
| 18    | 20S135101 | PILLI LAKSHMI NARAYANA               |
| 19    | 20S135090 | PIPPALLA KARTHIK ABHIRAM             |
| 20    | 20S139051 | POOJA. A                             |
| 21    | 20S139056 | PRABHAVATHY G                        |
| 22    | 20S135083 | PRADEEP SHARMA                       |
| 23    | 20S139024 | PRAGALLAPATI V V L D S SAI MANIKANTA |
| 24    | 20S139052 | PRIYA V                              |
| 25    | 20S135144 | PULAPA PURUSHOTHAM                   |
| 26    | 20S139038 | PUPPALA SAHITHI KALYANI              |
| 27    | 20S135073 | RACHAGORLA DAIVAGNA                  |
| 28    | 20S135076 | RAGA VINAYKUMAR                      |
| 29    | 20S139046 | RAGHUMANDA GOWTHAMI                  |
| 30    | 20S139043 | RAGHUMANDA NANI                      |
| 31    | 20S135140 | RAGHUPATRUNI BHANU PRAKASH           |
| 32    | 20S135012 | RAHAMATHULLAH. R                     |
| 33    | 20S135064 | RAHUL SAI KODALI                     |
| 34    | 20S135161 | RAJA VIJAYENDRA VARMA LAGISHETTY     |
| 35    | 20S135160 | RAKSHITHA.K                          |
| 36    | 20S135060 | RAMANA GOWTHAM REDDY THIPULURI       |
| 37    | 20S135094 | RAMKUMAR.M                           |
| 38    | 20S135077 | RANISH P                             |

|    |            |                                  |
|----|------------|----------------------------------|
| 39 | 20S135030  | RENUGA DEVI. B                   |
| 40 | 20S135049  | RITHIKA R                        |
| 41 | 20S138004  | ROFIN SHALOM.V                   |
| 42 | 20S135080  | ROHIT SHARMA                     |
| 43 | 20S135074  | SAI SANDEEP SS MADDIPATLA        |
| 44 | 20S135015  | SAJEEV. S                        |
| 45 | 20S135100  | SALADI NAGARAGHU                 |
| 46 | 20S135024  | SAMBANGI HANISH                  |
| 47 | 20S135040  | G.SAMUEL ADARSH                  |
| 48 | 20S135026  | A.SATYA NARAYANAN                |
| 49 | 20S139006  | SEETHALATHEVI K                  |
| 50 | 20S135005  | SELVA GANESHAN U S               |
| 51 | 20S135162  | SELVAMBHANUPRAKASH               |
| 52 | 20S135025  | SHAHI SHREYA                     |
| 53 | 20S135062  | SHAIK BHASHIT IMRAN HAZHAR       |
| 54 | 20S135070  | SHAIK DILSHAD SHAHIN AHMAD ALI   |
| 55 | 20S135017  | SHAIK LATHEEF ALI                |
| 56 | 20S139061_ | SHAIK.SOHEL                      |
| 57 | 20S135118  | SHARMA A.R                       |
| 58 | 20S139014  | SHARMILA V                       |
| 59 | 20S135147  | SHAURYA                          |
| 60 | 20S135135  | SHERIFE KHAN.S                   |
| 61 | 20S135029  | SHERLIE. L                       |
| 62 | 20S135014  | SHUBHOM DAS                      |
| 63 | 20S139059  | SIRIPIREDDY DAMARKESWARAREDDY    |
| 64 | 20S135056  | SITHESHWAR B I                   |
| 65 | 20S139030  | SIVADHARSHINI S                  |
| 66 | 20S135178  | SOUMYA RANJAN MISHRA             |
| 67 | 20S135095  | SRI HARI V R                     |
| 68 | 20S135125  | SRIGHAKOLLAPU.NAGA SAI RAM       |
| 69 | 20S135020  | SRINIVAS A                       |
| 70 | 20S135007  | SRIVATHSAV S                     |
| 71 | 20S135067  | SUBBAMMAL A P                    |
| 72 | 20S138008  | V.SUGANYA                        |
| 73 | 20S139050  | TAGARAMPUDI TEJA SRI LAKSHMI     |
| 74 | 20S135075  | TALUPULA SAI SURYA VISWA VIKYATH |
| 75 | 20S135157  | TANANGI NIKITH CHANDRA           |
| 76 | 20S135003  | TELLAMEKALA MAHESH BABU          |
| 77 | 20S139037  | THALLAPALLI GAYATHRI             |

|     |           |                                 |
|-----|-----------|---------------------------------|
| 78  | 20S135091 | THAMMINIENI VIVEK               |
| 79  | 20S139054 | THASLIMA BANU H                 |
| 80  | 29S135134 | THOTA HEMANTH SAI               |
| 81  | 20S135098 | THUMU BALA BALAJI               |
| 82  | 20S135172 | TIRUPATHI UDAY KUMAR            |
| 83  | 20S135087 | TUMALAPENTA.BHAVISH             |
| 84  | 20S139015 | UDHAYASURYA G                   |
| 85  | 20S135167 | ULLAGANTI YESHWANT SAI ABHILASH |
| 86  | 20S135013 | VADLAPATI DHEERAJ               |
| 87  | 20S139042 | VAKACHARLA VASAVI               |
| 88  | 20S135071 | VALLURI AVINASH                 |
| 89  | 20S139035 | VALPASANI HARISH                |
| 90  | 20S139020 | VARSHA R                        |
| 91  | 20S135150 | VASANTH.R                       |
| 92  | 20S135120 | VEERABALLI MANOJ KUMAR REDDY    |
| 93  | 20S135105 | VEMPADA HIMAVAMSI               |
| 94  | 20S135112 | VENKANNAPALLE HUSSAIN BASHA     |
| 95  | 20S139007 | VIGNESH L                       |
| 96  | 20S135006 | VIGNESH. N                      |
| 97  | 20S139034 | VIJAYARAO BINDU RADHIKA         |
| 98  | 20S135123 | VINAYAKAM VENKAT CHETHAN        |
| 99  | 20S135047 | YARASU GOVARDHAN REDDY          |
| 100 | 20S135106 | YARRU CHAITANYA LAKSHMI         |

# **SATHYABAMA**

**INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**

## **Certificate of Participation**

**This is to certify that**

**NIZHAMUDHIN. N**

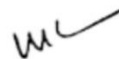
**from**

**Sathyabama Institute of Science and Technology**

**has participated in Skill Development Program "Physical Custom IC  
Design" conducted by Department of Electronics and Communication  
Engineering from 06.03.2023 to 31.03.2023**



**HOD/ECE  
Dr T Ravi**



**Dean (School of EEE)  
Dr N M Nandhitha**