





CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

### **5.1 Student Support**

# 5.1.2 Following Capacity development and Skills Enhancement activities are organised for improving students capability

- 1. Soft skills
- 2. Language and Communication skills
- 3. Life Skills (Yoga, Physical Fitness, Health and Hygiene)
- 4. ICT/Computing skills

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CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

## REPORTS ON ICT/COMPUTING SKILLS ENHANCEMENT PROGRAMS



of Engineering and Technology

SREE NARAYANA GURU COLLEGE OF ENGINEERING AND TECHNOLOGY KOROM, PAYYANUR, KANNUR DEPARTMENT OF CIVIL ENGINEERING

# GEOSPATIAL TECHNOLOGY AND IT'S APPLICATIONS ONE DAY WORKSHOP

VENUE: SEMINAR HALL

Contact Us

**TIME : 9:30AM** 

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Dr. LEENA A. V. FRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR







#### DEPARTMENT OF CIVIL ENGINEERING

Cordially invites you for the inauguration of

### **ONEDAY WORKSHOP ON GEOSPATIAL TECHNOLOGY AND ITS APPLICATIONS**

In the presence of

Dr. V K Janardanan, Principal

Lt.Col.Preveen C, Administrative Officer

Resource Persons Mr .Bony Raju Mr.Sisir P

We will be privileged to see you in the inauguration of Workshop on Saturday, 2th November 2019

<u>Venue</u> Seminar Hall <u>Time</u> 9.30 AM

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

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### <u>Agenda</u>

:

#### Time: 09.30-10.30AM - Inauguration

\* Prayer

Welcome address

Presidential address

Introduction of the Resource Person

Felicitation Address

Vote of thanks

Tea break

Pavithra and Kavya

: Abin Damodar, S7 CE

: Dr.V K Janardanan, Principal

:Dr .Susan Abraham, HOD

:Lt. Col Preveen C, Administrative Officer

:Mr. Aswin Krishna, CU Chairman

: Akhil Surendran, S5 CE

10:15 am -10:30 am

#### **TECHNICAL SESSION**

#### **Fore Noon Session**

#### 10:30 am -1:00 pm

- Introduction to Geospatial Technologies
- Basic concepts of GIS, Remote Sensing and GPS
- Applications of GIS in civil Engineering
- Job Opportunities in Geospatial Technology
- Advancements in Geospatial Technologies

#### Lunch

**Post Lunch Session** 

1:00 pm- 1:45 pm 1:45 pm- 3:30 pm

- Introduction to ArcGis (GIS Software)
- Live Demo Spatial Analysis with ArcGis
- Live Demo –Location based Augmented Reality in Construction Management
- Live Demo LiDAR data processing

Feedback by students

DF. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



#### DEPARTMENT OF CIVIL ENGINEERING

Workshop Report: Geospatial Technology and Its Applications

Date: November 2, 2019

Venue: Seminar Hall, SN College of Engineering and Technology. Time: 9:30 AM -3:30 PM

On the 2nd of November 2019, Sree Narayana Guru College of Engineering and Technology hosted a one-day workshop on Geospatial Technology and its applications at the Seminar Hall. This event was spearheaded by Dr. V.K. Janardanan, the institution's Principal, and Lt. Col. Praveen C, the Administrative Officer. The workshop aimed to introduce students to the vast world of geospatial technology and its multifaceted applications, with a special focus on its relevance within the civil engineering domain. The day began with a serene prayer led by Pavithra and Kavya, followed by a warm welcome by Abin Damodar from the Civil Department. Dr. V.K. Janardanan, the Principal, shared his insights in the presidential address, highlighting the importance of geospatial technology. The resource person for the day, Dr. Susan Abraham, Head of the Department, was introduced to the attendees. Felicitations came from Lt. Col. Praveen C, the Administrative Officer, and Mr. Aswin Krishna, CU Chairman. Akhil Surendran, a student from S5 Civil Engineering, extended his gratitude in the vote of thanks.

The morning session, which lasted from 10:30 AM to 1:00 PM, was dedicated to unraveling the fundamentals of Geospatial Technologies. Attendees were introduced to the basic concepts of Geographic Information Systems (GIS), Remote Sensing, and Global Positioning System (GPS). The session also shed light on practical applications of GIS in civil engineering and explored the diverse job opportunities within the Geospatial Technology sector. Additionally, the latest advancements in Geospatial Technologies were discussed.

> Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

After a lunch break from 1:00 PM to 1:45 PM, the post-lunch session commenced with an introduction to ArcGIS, a prominent GIS software. Live demonstrations captivated the audience as they witnessed spatial analysis with ArcGIS and learned about location-based augmented reality in construction management. The session culminated with a live demonstration on LiDAR data processing, providing attendees with practical insights into the subject. The day concluded with valuable feedback from the participants, offering a comprehensive perspective on the quality and impact of the workshop.

In sum, the workshop on Geospatial Technology and its applications proved to be an enlightening and informative experience for all participants. It provided a platform for students to gain valuable insights into the world of geospatial technology and its potential applications in the field of civil engineering. Live demonstrations offered hands-on experience, preparing students for a future where geospatial information and technology play a pivotal role in various industries. The success of the workshop was made possible by the active participation of students, the dedication of the organizing team, and the expertise of the resource person.

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



#### Sree Narayana Guru College of Engineering & Technology CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Department of Electrical and Electronics Engineering conducted online Webinar session on the topic Automation Nexus: Exploring SCADA ,PLCs and HMI by the resource person Ms. Fidha K M , Branch Technical Lead , IPCS GLOBAL , for all the students on 25/02/2024 in association with SAEEE at 2pm. Total of 60 students participated in the webinar session.

The event was inaugurated by Mr. Abhilash Krishnan T K, HoD EEE, SNGCET. Welcome addresses were delivered by Ms. Surya K (AP EEE). The program was co-ordinated by Ms. Rinsha T V and Ms. Surya K (AP EEE). Students actively participated in the questionnaire session. Ms. Aswathi Ravindran (AP EEE) delivered vote of thanks. The webinar session was concluded at 3pm.

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### Sree Narayana Guru College of Engineering & Technology

CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



Students Association of Electrical & Electrionics Engineering(SAEEE)

Presents

# WEBINAR

On

# Automation Nexus: Exploring PLCs, SCADA, and HMI"

With FIDHA K M AT 2:00 PM 25 FEBRUARY, 2024

Branch Technical lead, IPCS GLOBAL



Greetings from the Electrical and Electronics Engineering Department of Sree Narayana Guru College of Engineering & Technology, Payyanur!

We are thrilled to announce an upcoming webinar session titled "Automation Nexus: Exploring PLCs, SCADA, and HMI," aimed at providing profound insights into industrial automation technologies.

Key Highlights:

In-depth exploration led by experienced professionals from the field

Comprehensive overview of PLCs, SCADA, and HMI systems

Practical insights to enhance your understanding and application of automation technologies

Save the Date:

Sunday, February 25th, 2024

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2:00 p.m. - 3:00 p.m

Who Should Attend: Students ,Faculty members of SNGCET

Don't miss out on this valuable opportunity to expand your knowledge and expertise in industrial automation!

Register now: Register Here <u>https://forms.gle/nRzznViJy71muh566</u>

For Further Queries:

Ms. Rinsha T V, AP EEE



+91 9744323211

Ms. Surya, AP EEE

+91 8086317635

We look forward to welcoming you to our webinar and embarking on this enriching umm exploration of automation technologies together!

Join Google Meet Here: https://meet.google.com/wku-xacy-gyw

Dr. LEENA A. V. DRINCIPAL BRINCIPAL SREE NARNYANA GURU COLLEGE OF SREE NARNYANA GURU COLLEGE OF SREE NARNYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYANUR KANNUR



(PROMOTED BY SREE BHAKTHI SAMVARDHINI YOGAM, KANNUR) CHALAKKODE P.O., PAYYANUR, KANNUR-670307, KERALA



### AUTOMATION NEXUS: EXPLORING SCADA ,PLCS AND HMI

Agenda

Prayer

Welcome Address

Ms. Surya K (AP EEE)

#### **Principal's Address**

Mr. Abhilash Krishnan T K, HoD EEE, SNGCET.

#### Vote of Thanks

Ms. Aswathi Ravindran (AP EEE)

Date: 25-02-2024

Time: 2.00 pm

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

## **Registration Form**

AUTOMATION NEXUS: EXPLORING PLC, SCADA AND HMI

1. Introduction to Industrial automation

2. Introduction to PLC

3. Introduction to SCADA

4. Introduction to HMI

5.Main PLC brands.

6. Hierarchy of Automation

\* Indicates required question

1. Name \*

2. Department \*

3. Semester \*

4. Mail Id \*

5. Contact No. \*



### **REGISTRATION DETAILS AUTOMATION NEXUS : EXPLORING PLCS ,SCADA&HMI**

#### SI No Name

1 Shahana Sherin 2 vishnu u 3 Diya kc **4 NIHARIKA P** 5 Adwaith krishna 6 Anurai N 7 Nihad T 8 Souparnika 9 MEERA M 10 Adhin o 11 Abhishek M O 12 Muhammed Adnan EM 13 Anuvind.N.K 14 Vismaya P P 15 Muhammed shafnas k 16 Fathima Hashim 17 Yadhukrishna **18 MUHAMMED SAFWAN** 19 Neha Ramesh 20 Fiza Farheen 21 VYSHNA SHAJI 22 NANDANA, K P 23 Sajjad Zainudheen 24 Meghna Manoj 25 Fathima Nasla.M.V 26 Parthip.k.anish 27 Adithya.k **28 ANUPRIYA K** 

Civil **S8** ECE **S6** Electrical and e S4 CSE **S4** Cse **S2** FEF **S6** Electrical and e S6 **Civil engineerin S4** ECE Electrical and e S6 Cse Computer scier S6 EEE **S4** EEE EEE **S4 Computer scier Fourth** Civil **S4** MECHANICAL F **Computer Scier** civil COMPUTER SCI COMPUTER SCI Civil **S8** CSE Electronics and Cse EEE **S**4 **CIVIL ENGINEEF** 

Department

Semester

Mail Id shahanasherin0521@gmail.com vishnu17011@gmail.com diy4deepak00@gmail.com niharika30p@gmail.com adwaithkr1010@gmail.com anurajn22@gmail.com nihadthayath@gmail.com souparnikasumesu5@gmail.com Assistant Pr meeram@sngcet.ac.in adhinolachery@gmail.com 4 moabhishek039@gmail.com slkadnan77@gmail.com anuvindnk@gmail.com 4 vismayakrishnan03@gmail.com Muhammedshafnask@gmail.com fathimahashim230@gmail.com yadhu4421@gmail.com 4 muhammedsafwan553@gmail.com 4 neharamesh591@gmail.com 8 fiz.fiza77@gmail.com 4 vyshnashaji369@gmail.com 4 nandanakp631@gmail.com sajjadbinzainudheen0@gmail.com 4 manojkumarak360@gmail.com 8 naslafawaz@gmail.com 8 Parthipkanish@gmail.com adithyasurendrank21@gmail.com 8 anupriyak159@gmail.com

Any specific question or topics you would Contact No. like covered during the webinar No PLC brand No No Future of coding Not specific Nothing No No 7012650584 No 6238763647 Introduction to industrial automation 8590795161 No 9037106734 No 9048521613 No 8714473928 No 9656182943 Nothing specific 9633153384 Nothing 7025051154 No 8848107115 Exploration of LED 8129555010 nope 9188376209 Exploration of lead 7907142822 EXPLORATION OF LED 7902651311 No 8921460608 Exploration of led 9656474358 No 9895690176 No 7994460820. 7907446978 NO

| 29 Abhijitha K         | CE              | 58          | abbijithak6122@gmail.com       | 0500001050 11                     |
|------------------------|-----------------|-------------|--------------------------------|-----------------------------------|
| 30 Amarnath Balan C    | CSE             | 50          | A amarnathhalan 217 @ mail.com | 8590881250 No                     |
| 31 Ms. LEENA NARAYANAN | ECE             | Not applie  | 4 amarnathbalan21/@gmail.com   | 9778167959 No                     |
| 32 Akshav k v          | FFF             | Not applic  | al leenanarayanan@sngcet.ac.in | 9746044628 No                     |
| 33 HRUDHUL BAGH        | ELECTRICAL      | 54<br>N 04h | aksnaykv357@gmail.com          | 7012190357 Nothing                |
| 34 Shinov Biju         |                 |             | hrudhulragh002@gmail.com       | 9072481729 No                     |
| 35 Souvind padani      | EEE             | 56          | bijushinoy@gmail.com           | 8129707004 EV                     |
| 36 Dhanush Coningth    | Electrical      | Four        | Souvindkunnaru@gmail.com       | 9048807363 No                     |
| 37 Smour South         | Civil           | 1.1         | 6 Dhanushgp088@gmail.com       | 8137832851 .                      |
|                        | Cse             | S4          | smeyasajith@gmail.com          | 9895047064 Exploration of led     |
| 36 AIVIAL KP           | EEE             | S6          | amalravikp@gmail.com           | 7994109882 No                     |
| 39 Wegnith sukumaran   | EEE             | S4          | meghithsukumaran@gmail.com     | 9847950911 Nothing                |
| 40 Aswathi PP          | EEE             |             | 8 disharajin@gmail.com         | 8113815026 No                     |
| 41 Gazal v             | EEE             | S4          | Gazalv123@gmail.com            | 9633719250 Nothing                |
| 42 Abhinav C           | Electrical and  | E S8        | abhinavcheriyath@gmail.com     | 9895642795 No                     |
| 43 Hrishikesh pv       | EEE             | S6          | Pvhrishikesh5@gmail.com        | 9746548261 No                     |
| 44 Pranav M P          | EEE             | S4          | pranavshylajacr7@gmail.com     | 6238647874 No                     |
| 45 Ashwin John         | Mechanical      | 5           | 3 ashwinjohn0512@gmail.com     | 8943029781 No                     |
| 46 JYOTHIRMAYI T P     | EEE             | S2          | jyothirmayitp05@gmail.com      | 7594041138 No                     |
| 47 ABHAY RAM A V       | EEE             | S2          | abhayramkarippal@gmail.com     | 9645724749 No                     |
| 48 Manjush Premkumar   | Computer Scie   | er S4       | manjushpremkumar00@gmail.com   | 8304081479 PLC                    |
| 49 Rajin SKT           | EEE             | 2           | rajinsunil@gmail.com           | 9778039970 Information about PLCs |
| 50 Neha K. P           | Electronics and | d S4        | Nehaaakp@gmail.com             | 8138074155 No                     |
| 51 Sabin M             | ECE .           | S4          | m13590916@gmail.com            | 8281822702                        |
| 52 Ashish k            | Mechanical      | <b>S8</b>   | Ashishkaranath@gmail.com       | 6283630443 Op                     |
| 53 Mohamed Aseel       | ECE             | <b>S</b> 3  | aseelibnashraf@gmail.com       | 9995247360 No                     |
| 54 shagneya k          | Electronics and | d \$4       | sreeiakumarinn1976@gmail.com   | 9393247309 NO                     |
| 55 Malavika.P          | ECE             | <b>S4</b>   | malavikan61@gmail.com          | 9747248891 NO                     |
| 56 Aswin Babu M V      | Mechanical      | 58          | aswinhahu8985@gmail.com        | 8590898571 NO                     |
| 57 Keerthana Surendran | Civil Engineeri | 1 58        | keerthanasurandran6@gmail.com  | 7907215944 No                     |
| 58 Sourag k            | Mechanical      | 58          | SOURAGE 122 @CMAU COM          | 8289894206 No                     |
| 59 Meghana gangadharan | Electronics and | 8th semart  | okmeghana2022@il               | 892136300 Nothing                 |
| 60 Haneena Sulthana    | FCF             | oursemeste  | hanoonooulthome @i             | 9061988620 No                     |
| 61 JERRY V JOSE        | FCF             | Not Applica | had as @second                 | 9633263010 No                     |
|                        | LCL             | Nor Applica | nou.ec@sngcet.ac.in            | 9074216158 No                     |

| 62 | Varsha Ramachandran   | Computer scier | S2         |
|----|-----------------------|----------------|------------|
| 63 | SINI NAMATH           | ECE            | NA         |
| 64 | AKSHAY PK             | CSE            | S6         |
| 65 | Adhithya jithesh      | CSE            | <b>S6</b>  |
| 66 | B.Sreyas Krishnan     | CSE            | <b>S</b> 6 |
| 67 | Mahima                | Computer scier |            |
| 68 | Athulya Madhusoodanan | ECE            | Ass        |
| 69 | Mithula               | EEE            |            |
|    |                       |                |            |

S2varsharam0603@gmail.comNAnamathsini@gmail.comS6pkakshay916@gmail.comS6adhithyajithesh710@gmail.comS6sreyaskrishnan45@gmail.com4mahimamohanan67@gmail.comAssistant Pr athulyamn@sngcet.ac.in2mithulamithu03@gmail.com

7558095220 No 8547245403 NA 9562599814 No 9072049999 No 8547564608 No 8590838124 No 7034424377 None 9778204036 HML

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SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Promoted by Sree Bhakthi Samvardhini Yogam, Kannur Affiliated to KTU & Recognised by AICTE, New Delhi Payyanur, Kannur, Kerala, Pin-670307 Office-04985-201989, 7812911912 Email-info@sngcet.org





# HANDS-ON TRAINING ON PCB DESIGN AND FABRICATION

### **For all Studens**

### Organized by Department of Electrical & Electronics Engineering

From 30-03-2023 to 03-04-2023

🕥 9.30am to 3.30pm

Venue: LED Manufacturing unit

### **Staff co ordinators**

Ms. Archana C P Assistant Professor Department of EEE Mr. Sreeraj T K Lab Instructor Department of EEE

### **Student co ordinators**

Mr. Vaishnav T V Dr. LEENA A. V. S8 EEE SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KADINUR

Ms. Aswathi P P S6 EEE



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#### SYLLABUS

#### **PCB Design and Fabrication**

#### Day 1: Introduction to PCBs and Basic Design Concepts

#### Morning Session:

Introduction to Printed Circuit Boards (PCBs): Definition, importance, and applications.

Overview of the PCB design process: From schematic to layout.

Introduction to common PCB design software tools (e.g., Eagle, Altium, KiCad).

#### Afternoon Session:

Understanding basic design concepts:

PCB layers: Types and functions.

Component placement: Considerations and best practices.

Introduction to routing traces: Signal paths, trace width, and clearance.

#### **Day 2: Advanced PCB Design Techniques**

#### Morning Session:

Understanding PCB layer stack-up: Importance and configuration.

Signal integrity considerations: Impedance matching, signal integrity analysis.

Designing for EMI/EMC compliance: Grounding techniques, signal shielding.

#### Afternoon Session:

High-speed design principles: Differential pairs, controlled impedance routing.

Design for manufacturability (DFM) guidelines: Design rule checks (DRC), panelization.

#### Day 3: PCB Design Software Proficiency

#### Morning Session:

Practical session: Hands-on training with PCB design software. Familiarization with the user interface, toolbars, and shortcuts.

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Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR Creating schematics: Adding components, connecting nets.

#### Afternoon Session:

Layout design: Placing components, routing traces, ground planes.

Introduction to design constraints and design rules.

#### **Day 4: PCB Fabrication Process**

#### Morning Session:

Overview of the PCB fabrication process: Steps involved from design to finished board.

Understanding Gerber files: Format, layers, and their role in fabrication.

Selection of PCB materials: Types, properties, and considerations.

#### Afternoon Session:

Design optimization for fabrication: Panelization, copper weight, solder mask considerations.

Introduction to PCB assembly (PCBA): SMT vs. Through-hole, assembly techniques.

#### Day 5: Hands-On Fabrication and Design Review

#### Morning Session:

Hands-on practical session: Participants design their PCB layouts using software.

Guidance provided on optimizing designs for fabrication and assembly.

#### Afternoon Session:

Design review and feedback: Participants present their designs for review and critique.

Discussion on common mistakes and how to avoid them.

Q&A session: Addressing participants' queries and clarifications.

Conclusion and Certificate Distribution.

This 5-days training syllabus provides a structured approach to learning PCB design and fabrication, covering essential concepts, advanced techniques, practical software training, and hands-on experience. Each day focuses on specific aspects of PCB design and fabrication, gradually building participants' skills and knowledge throughout the training program.

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#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

#### ATTENDANCE SHEET

| Date: 30/03/2023 to 03/04/2023 |                  | Venue: Led Bulb Manufacturing Unit |            |            |            |            |
|--------------------------------|------------------|------------------------------------|------------|------------|------------|------------|
|                                |                  | ATTENDANCE                         |            |            |            |            |
| SI.No                          | Name of Students | 30-03-2023                         | 31-03-2023 | 01-04-2023 | 02-04-2023 | 03-04-2023 |
| 1                              | VYSHNAV TV       | X                                  | X          | X          | X          | X          |
| 2                              | DEVI KEERTHANA   | X                                  | X          | X          | x          | X          |
| 3                              | ASWATHI PP       | X                                  | X          | X          | X          | X          |
| 4                              | ADHIN O          | X                                  | X          | X          | x          | X          |
| 5                              | ANURAJ N         | X                                  | X          | X          | X          | X          |
| 6                              | NIHAD T          | X                                  | X          | X          | X          | x          |
| 7                              | ADITHYA K        | X                                  | ×          | ×          | x          | X          |
| 8                              | DIYA KC          | X                                  | X          | X          | X          | r          |
| 9                              | ANUVIND NK       | x                                  | X          | X          | x          | X          |
| 10                             | VISMAYA          | ×                                  | ×          | ×          | x          | X          |

Co-ovelinator

HODEFE

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

| Date: 30/03/2023 to 03/04/2023 |                | Venue: Led Bulb Manufacturing Unit |        |  |
|--------------------------------|----------------|------------------------------------|--------|--|
| SI.No Name of Students         |                | Semester                           | Branch |  |
| 1                              | VYSHNAV TV     | S8                                 | EEE    |  |
| 2                              | DEVI KEERTHANA | S8                                 | EEE    |  |
| 3                              | ASWATHI PP     | S6                                 | EEE    |  |
| 4                              | ADHIN O        | S4                                 | EEE    |  |
| 5                              | ANURAJ N       | S4                                 | EEE    |  |
| 6                              | NIHAD T        | S4                                 | EEE    |  |
| 7                              | ADITHYA K      | S2                                 | EEE    |  |
| 8                              | DIYA KC        | S2                                 | EEE    |  |
| 9                              | ANUVIND NK     | S2                                 | EEE    |  |
| 10                             | VISMAYA        | S2                                 | EEE    |  |

#### **Registration Form**



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Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

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### **EVENT PROPOSAL FORM**

#### I. TO BE FILLED BY THE EVENT COORDINATOR(S)

| 1  | Event type   | PCB WORKSHOP  |
|----|--|---|
| 2  | Event name   | HANDS ON TRAINING ON PCB DESIGN AND FABRICATION   |
| 3  | Whether the event is<br>inter departmental? If<br>yes, mention the other<br>department(s) associated<br>with   | Electrical And Electronics Engineering  |
| 4  | Mode of conduct [online / offline]   | Offline   |
| 5  | Date and time  | 30-03-2023 -3-04-2023<br>09:30am - 03:30pm  |
| 6  | Venue  | LED Manufacturing Unit  |
| 7  | Whether any professional<br>body is associated with the<br>event?<br>If yes, name the body   | No  |
| 8  | Participants / Target<br>Audience  | All students  |
| 9  | Whether the event is<br>conducted for bridging the<br>gap in syllabus?<br>If Yes, name the course with<br>code and the semester and<br>year it the subject is<br>handled | NO, SKILL DEVELOPHENT   |
| 10 | Objectives of the event  | • Educational Insight: To familiarize participants with the fundamentals of PCB design. To provide practical training on using PCB design software. |

PAGE 1 OF 2

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|---|-------|--|--|
|   |       |  | • Skill Enhancement: Enhance students' skills and creativity by encouraging participation in training sessions. To educate participants about the PCB fabrication process. To enable participants to create their PCB designs and fabricate them.  |
|   |       |  | • Holistic Learning: Encourage interdisciplinary learning by allowing students to engage in different types of activities that cater to their diverse interests and talents, aligning with the holistic nature of the B. Tech curriculum.  |
| - | -     |  | • Teamwork and Collaboration: Promote teamwork and collaboration through group activities. Participants gained a comprehensive understanding of PCB design principles and techniques.  |
|   |       |  | • Hands-on experience: Enabled participants to create their<br>PCB designs effectively. Participants learned how to<br>optimize designs for fabrication, ensuring manufacturability<br>and reliability. Increased confidence among participants in<br>using PCB design software and submitting designs for<br>fabrication. |
| 1 | 1     | Expected Outcomes  | A structured approaches to learn PCB design and fabrication<br>covering essential concepts, advanced techniques, practical software<br>training and hands on experience.   |
| 1 | 12    | Connected PO /<br>PSO  | PO1,PO3,PO5,<br>PO 9,PO 11,PO12  |
| 1 | 13    | Justification for PO /<br>PSO [may use separate<br>sheet if necessary]   | Engineering knowledge, Problem Analysis, Design /<br>Development Of Solution, Modern tool usage, Individual and<br>Team work, Project Management and Finance Life Long<br>Learning   |
|   | 1.110 |  |  |

PAGE 2 OF 2

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PAGE 3 OF 2

|    |  | <ul> <li>9. COVID-19 Precautions:</li> <li>Adherence to local health guidelines, including mask-wearing, social distancing, and sanitization.</li> </ul> |
|----|--|--|
| 17 | Any fund from external<br>source will be received?<br>If yes, mention it.                                | Yes  |
| 18 | Whether budget for the<br>event is attached? (use<br>separate sheet to indicate<br>the estimated budget) | YES  |
| 19 | Any other relevant information   | Nil  |
| 20 | Name of the event coordinator(s)   | Ms. Archana C P ( AP EEE), Mr. Sreeraj(The lab instructor EEE)   |
| 21 | Dated signature of the coordinator(s)  | And to the series  |

## II. TO BE FILLED BY THE DEPARTMENT HOD (any one of the HoD, in case if the event is jointly conducted by various department(s))

| 1 | Comments on the relevance of the event                    |                                |
|---|---|--------------------------------|
| 2 | Recommendation [Put a tick $$ on whichever is applicable] | Recommended<br>Not Recommended |
| 3 | Name  | AShilash Krishnon T.K          |
| 4 | Dated Signature   | Aldutar :2023.                 |

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GODI COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

#### **COMMENTS FROM PRINCIPAL**

#### APPROVED / NOT APPROVED

DATED SIGNATURE OF THE PRINCIPAL:

03 2023

PAGE 4 OF 2



#### SREE NARAYANA GURU COLLEGE OF ENGINEERING &

#### TECHNOLOGY

### ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

The Department of Electrical and Electronics Engineering conducted five days Hands on training on PCB Design and Fabrication for all students of our college from 30 March 2023 to 03 April 2023. A Total of 10 students participated in the training session. The students gained hands on experience in PCB Design and Fabrication.

The event was inaugurated by Dr. Leena A V, Principal, SNGCET. Welcome addresse was delivered by Mr. Abhilash Krishnan (HoD, EEE). Mr. Archana C P, (AP. EEE) delivered felicitation speech. Welcome address delivered by Ms. Aswathi PP, Student Coordinator and Mr. Vaishnav TV, student co coordinator delivered vote of thanks.

The 5-days training session was handled by Mr. Sreeraj, the lab instructor EEE.

The primary objectives of the training were:

To familiarize participants with the fundamentals of PCB design. To provide practical training on using PCB design software. To educate participants about the PCB fabrication process. To enable participants to create their PCB designs and fabricate them.

Participants gained a comprehensive understanding of PCB design principles and techniques. Hands-on experience enabled participants to create their PCB designs effectively. Participants learned how to optimize designs for fabrication, ensuring manufacturability and reliability. Increased confidence among participants in using PCB design software and submitting designs for fabrication.

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR 25NNUR











47R2+G8H, Kerala 670307, India Lat 12.141583° Long 75.250157° 03/04/23 12:13 PM GMT +05:30

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Dr. LEENA A. V. PRINCIPAL SREE NAPAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



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#### HANDS ON TRAINING ON PCB DEISGN AND FABRICATION

Agenda

Prayer

#### Welcome Address

Ms. Aswathi P P (student co-ordinator)

**Felicitation** Ms. Archana C P

#### **Principal's Address**

Mr. Abhilash Krishnan T K (AP EEE)

Inauguration Dr.Leena A V

#### Vote of Thanks

Mr. Vaishnav T V (student co-ordinator)

Lun

Date: 30-03-2023

Dr. LEENA A. V. PRINCIPAL SREE NARAY NEA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

Time: 9.30 am

27

(Promoted by Sree Bhakthi Samvardhini Yogam, Kannur) (Affliated to APJ Abdul Kalam Technological University and Approved by AICTE, New Delhi) Chalakkode P.O, Payyanur, Kannur-670307, Kerala

## **CERTIFICATE OF COMPLETION**

This is to crtify that

## VYSHNAV TV

has suscessfully completed Five days hands on training program on PCB Design and Fabrication organised by Department of Electrical and Electronics Engineering from 30-03-2023 to 03-04-2023

Coordinator Ms. Archana CP Assistant Professor

HOD-EEE Pricipal Mr. Abhilash Krishnan Assoc28 Professor

(Promoted by Sree Bhakthi Samvardhini Yogam, Kannur) (Affliated to APJ Abdul Kalam Technological University and Approved by AICTE, New Delhi) Chalakkode P.O, Payyanur, Kannur-670307, Kerala

### **CERTIFICATE OF COMPLETION**

This is to crtify that

### VISMAYA

has suscessfully completed Five days hands on training program on PCB Design and Fabrication organised by Department of Electrical and Electronics Engineering from 30-03-2023 to 03-04-2023



Coordinator Ms. Archana CP Assistant Professor

HOD-EEE Pricipal Mr. Abhilash Krishnan T K Associate Professor

(Promoted by Sree Bhakthi Samvardhini Yogam, Kannur) (Affliated to APJ Abdul Kalam Technological University and Approved by AICTE, New Delhi) Chalakkode P.O. Payyanur, Kannur-670307, Kerala

## **CERTIFICATE OF COMPLETION**

This is to crtify that

## NIHAD T

has suscessfully completed Five days hands on training program on PCB Design and Fabrication organised by Department of Electrical and Electronics Engineering from 30-03-2023 to 03-04-2023



Coordinator Ms. Archana CP Assistant Professor

HOD-EEE Pricipal Mr. Abhilash Krishnan Associate Professor

(Promoted by Sree Bhakthi Samvardhini Yogam, Kannur) (Affliated to APJ Abdul Kalam Technological University and Approved by AICTE, New Delhi) Chalakkode P.O, Payyanur, Kannur-670307, Kerala

## **CERTIFICATE OF COMPLETION**

This is to crtify that

## **DIYA KC**

has suscessfully completed Five days hands on training program on PCB Design and Fabrication organised by Department of Electrical and Electronics Engineering from 30-03-2023 to 03-04-2023



Coordinator Ms. Archana CP Assistant Professor

HoD-EEE SREE NARA Mr. Abhilash Krishnan T K Associate Professor

(Promoted by Sree Bhakthi Samvardhini Yogam, Kannur) (Affliated to APJ Abdul Kalam Technological University and Approved by AICTE, New Delhi) Chalakkode P.O, Payyanur, Kannur-670307, Kerala

## **CERTIFICATE OF COMPLETION**

This is to crtify that

## **DEVI KEERTHANA**

has suscessfully completed Five days hands on training program on PCB Design and Fabrication organised by Department of Electrical and Electronics Engineering from 30-03-2023 to 03-04-2023



Coordinator Ms. Archana CP Assistant Professor

HoD-EEE PRINCIPAL Mr. Abhilash Krishnan T K a TCHNOLOGY PAYAN Associate Professor

(Promoted by Sree Bhakthi Samvardhini Yogam, Kannur) (Affliated to APJ Abdul Kalam Technological University and Approved by AICTE, New Delhi) Chalakkode P.O, Payyanur, Kannur-670307, Kerala

# **CERTIFICATE OF COMPLETION**

This is to crtify that

## **ASWATHI PP**

has suscessfully completed Five days hands on training program on PCB Design and Fabrication organised by Department of Electrical and Electronics Engineering from 30-03-2023 to 03-04-2023



Coordinator Ms. Archana CP Assistant Professor

HoD- EEE SREE NAPAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYANUR Pricipal Mr. Abhilash Krishnan T K KANNUR Associate Professor

(Promoted by Sree Bhakthi Samvardhini Yogam, Kannur) (Affliated to APJ Abdul Kalam Technological University and Approved by AICTE, New Delhi) Chalakkode P.O, Payyanur, Kannur-670307, Kerala

# **CERTIFICATE OF COMPLETION**

This is to crtify that

# ANUVIND NK

has suscessfully completed Five days hands on training program on PCB Design and Fabrication organised by Department of Electrical and Electronics Engineering from 30-03-2023 to 03-04-2023



Coordinator Ms. Archana CP Assistant Professor

HoD- EEE SREE NARA ANA GURU COLLEGE OF Pricipal Mr. Abhilash Krishnan T K KANNUR Dr.Leen A V Associate Professor

(Promoted by Sree Bhakthi Samvardhini Yogam, Kannur) (Affliated to APJ Abdul Kalam Technological University and Approved by AICTE, New Delhi) Chalakkode P.O, Payyanur, Kannur-670307, Kerala

# **CERTIFICATE OF COMPLETION**

This is to crtify that

# ANURAJ N

has suscessfully completed Five days hands on training program on PCB Design and Fabrication organised by Department of Electrical and Electronics Engineering from 30-03-2023 to 03-04-2023



Coordinator Ms. Archana CP Assistant Professor

HoD-EEE SREE NARA ANA GURU COLLEGE OF Pricipal Mr. Abhilash Krishnan T K KANNUR Dr.Leen A V Associate Professor
# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

(Promoted by Sree Bhakthi Samvardhini Yogam, Kannur) (Affliated to APJ Abdul Kalam Technological University and Approved by AICTE, New Delhi) Chalakkode P.O, Payyanur, Kannur-670307, Kerala

# **CERTIFICATE OF COMPLETION**

This is to crtify that

# **ADITHYA K**

has suscessfully completed Five days hands on training program on PCB Design and Fabrication organised by Department of Electrical and Electronics Engineering from 30-03-2023 to 03-04-2023



Coordinator Ms. Archana CP Assistant Professor

HOD- EEE SREE NARA ANA GURU COLLES Mr. Abhilash Krishnan T K Associate Professor

Pricipal Dr.Leen A V



# HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

# FEEDBACK FORM

Thank you for participating in our 5-days LED bulb training session. Your feedback is valuable to us as we strive to continuously improve our training programs. Please take a few moments to share your thoughts and suggestions regarding the training you received.

#### **Participant Information:**

Name: Vyshnu TV Date: 03/04/23

Training Session Evaluation:

#### 1. Overall Satisfaction:

- Very Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied

2. Relevance of Training Content:

- Highly Relevant
- Relevant
- Somewhat Relevant
- Not Relevant
- 3. Clarity of Instruction:
- Very Clear
- Clear
- Somewhat Clear
- Unclear
- 4. Quality of Training Materials:
- Excellent
- Good
- Fair
- Poor

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

- 5. Effectiveness of Hands-on Exercises:
- Very Effective
- Effective
- Somewhat Effective
- Ineffective
- 6. Interaction with Instructor:
- Excellent
- Good
- Fair
- Poor
- 7. Likelihood of Recommending this Training to Others:
- Very Likely
- Likely
- Neutral
- Unlikely
- Very Unlikely
- 8. Did the training session encourage you to learn more about LED technology?
- Yes
- No
- 9. Overall Training Experience:
- Excellent
- Good
- Fair
- Poor

**10. Additional Comments or Suggestions:** 

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Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



# HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

# FEEDBACK FORM

Thank you for participating in our 5-days LED bulb training session. Your feedback is valuable to us as we strive to continuously improve our training programs. Please take a few moments to share your thoughts and suggestions regarding the training you received.

**Participant Information:** 

Name: DevikeerShung Date: 3/4/28

Training Session Evaluation:

#### 1. Overall Satisfaction:

- Very Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied
- 2. Relevance of Training Content:
- Highly Relevant
- Relevant
- Somewhat Relevant
- Not Relevant
- 3. Clarity of Instruction:
- Very Clear
- Clear
- Somewhat Clear
- Unclear
- 4. Quality of Training Materials:
- Excellent
- Good
- Fair
- Poor

PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

- 5. Effectiveness of Hands-on Exercises:
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- Effective
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- Unlikely
- Very Unlikely
- 8. Did the training session encourage you to learn more about LED technology?
- Yes
- No
- 9. Overall Training Experience:
- Excellent
- Good
- Fair
- Poor

**10. Additional Comments or Suggestions:** 

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

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# HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

# FEEDBACK FORM

Thank you for participating in our 5-days LED bulb training session. Your feedback is valuable to us as we strive to continuously improve our training programs. Please take a few moments to share your thoughts and suggestions regarding the training you received.

## **Participant Information:**

Name: Aswathi PP

Date: 03/04/23

Training Session Evaluation:

## 1. Overall Satisfaction:

- Very Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied
- 2. Relevance of Training Content:
- Highly Relevant
  - Relevant
  - Somewhat Relevant
  - Not Relevant
- 3. Clarity of Instruction:
- Very Clear
- Clear
  - Somewhat Clear
  - Unclear
  - 4. Quality of Training Materials:
- Excellent
- Good
- Fair
- Poor

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

#### 5. Effectiveness of Hands-on Exercises:

- Very Effective
- Effective
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- 6. Interaction with Instructor:
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- Fair
- Poor
- 7. Likelihood of Recommending this Training to Others:
- Very Likely
- ( Likely
- Neutral
- Unlikely
- Very Unlikely

8. Did the training session encourage you to learn more about LED technology?

• Yes

- No
- 9. Overall Training Experience:
- Excellent
- Good
- Fair
- Poor

**10. Additional Comments or Suggestions:** 

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Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



# HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

# FEEDBACK FORM

Thank you for participating in our 5-days LED bulb training session. Your feedback is valuable to us as we strive to continuously improve our training programs. Please take a few moments to share your thoughts and suggestions regarding the training you received.

### **Participant Information:**

Name: ADHIN.0

Date: 03-04-2023

Training Session Evaluation:

### 1. Overall Satisfaction:

- Very Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied
- 2. Relevance of Training Content:
- Highly Relevant
- Relevant
- Somewhat Relevant
- Not Relevant
- 3. Clarity of Instruction:
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- Clear
- Somewhat Clear
- Unclear
- 4. Quality of Training Materials:
- Excellent
- Good
- Fair
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Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

## 5. Effectiveness of Hands-on Exercises:

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- Effective
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- 6. Interaction with Instructor:
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- 7. Likelihood of Recommending this Training to Others:
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- 8. Did the training session encourage you to learn more about LED technology?
- Yes
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- 9. Overall Training Experience:
- Excellent
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- Fair
- Poor

**10. Additional Comments or Suggestions:** 

Dr. LEENA RINCIPAL SREE NARAYANA GURU COLLEGE OF TECHNOLOGY, PAYYANUR ENGINEERING & CANNUE

Thank you for taking the time to complete this feedback form. Your input is essential for us to enhance the quality of our training programs. Please return this form before leaving.

Excellent

And Andrews Constraints

### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

# HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

# FEEDBACK FORM

Thank you for participating in our 5-days LED bulb training session. Your feedback is valuable to us as we strive to continuously improve our training programs. Please take a few moments to share your thoughts and suggestions regarding the training you received.

### **Participant Information:**

Name: Amery N Date: 4/23 Training Session Evaluation:

- 1. Overall Satisfaction:
- Very Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied
- 2. Relevance of Training Content:
- Highly Relevant
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- 4. Quality of Training Materials:
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  - Good
  - Fair
  - Poor

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Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

- 5. Effectiveness of Hands-on Exercises:
- Very Effective
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- 6. Interaction with Instructor:
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- Very Likely
- Likely
- Neutral
- Unlikely
- Very Unlikely
- 8. Did the training session encourage you to learn more about LED technology?
- Yes
  - No
  - 9. Overall Training Experience:
  - Excellent
- Good
- Fair
- Poor
- **10. Additional Comments or Suggestions:**

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Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



# HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

# FEEDBACK FORM

Thank you for participating in our 5-days LED bulb training session. Your feedback is valuable to us as we strive to continuously improve our training programs. Please take a few moments to share your thoughts and suggestions regarding the training you received.

**Participant Information:** 

Name: Netud) Date: 34/2023

Training Session Evaluation:

- 1. Overall Satisfaction:
- Very Satisfied
- Satisfied
- Neutral
- Dissatisfied
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- 2. Relevance of Training Content:
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- 4. Quality of Training Materials:
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- Good
- Fair
- Poor

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#### 5. Effectiveness of Hands-on Exercises:

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- Effective
- Somewhat Effective
- Ineffective
- 6. Interaction with Instructor:
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- Good
- Fair
- Poor
- 7. Likelihood of Recommending this Training to Others:
- Very Likely
- Likely
- Neutral
- Unlikely
- Very Unlikely

8. Did the training session encourage you to learn more about LED technology?

- Yes
- No
- 9. Overall Training Experience:
- Excellent
- Good
- Fair
- Poor

10. Additional Comments or Suggestions:

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



# HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

# **FEEDBACK FORM**

Thank you for participating in our 5-days LED bulb training session. Your feedback is valuable to us as we strive to continuously improve our training programs. Please take a few moments to share your thoughts and suggestions regarding the training you received.

### **Participant Information:**

Name: Althy b Date: Al23 Training Session Evaluation:

- 1. Overall Satisfaction:
- Very Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied
- 2. Relevance of Training Content:
- Highly Relevant
- Relevant
- Somewhat Relevant
- Not Relevant
- 3. Clarity of Instruction:
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- Somewhat Clear
- Unclear
- 4. Quality of Training Materials:
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- Good
- Fair
- Poor

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

- 5. Effectiveness of Hands-on Exercises:
- Very Effective
- Effective
  - Somewhat Effective
  - Ineffective
  - 6. Interaction with Instructor:
  - Excellent
  - . Good
  - Fair
  - Poor
  - 7. Likelihood of Recommending this Training to Others:
  - Very Likely
  - Likely
- Neutral
- Unlikely
- Very Unlikely
- 8. Did the training session encourage you to learn more about LED technology?
- Yes
- No
- 9. Overall Training Experience:
- Excellent
- Good
- Fair
- Poor

**10. Additional Comments or Suggestions:** 

Dr. LEENA A.V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



# HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

# **FEEDBACK FORM**

Thank you for participating in our 5-days LED bulb training session. Your feedback is valuable to us as we strive to continuously improve our training programs. Please take a few moments to share your thoughts and suggestions regarding the training you received.

### **Participant Information:**

Name: Suga-KC Date: - B | 04/23 Training Session Evaluation:

### 1. Overall Satisfaction:

- Very Satisfied
  - Satisfied
  - Neutral
  - Dissatisfied
  - Very Dissatisfied
  - 2. Relevance of Training Content:
  - Highly Relevant
  - Relevant
  - Somewhat Relevant
  - Not Relevant
  - 3. Clarity of Instruction:
  - Very Clear
  - Clear
  - Somewhat Clear
  - Unclear
  - 4. Quality of Training Materials:
  - Excellent
  - Good
  - Fair
  - Poor

1200

Dr. LEENA A. V. PRINCIPAL SREE NARA/ANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

- 5. Effectiveness of Hands-on Exercises:
- Very Effective
- Effective
- Somewhat Effective
- Ineffective
- 6. Interaction with Instructor:
- Excellent
- Good
- Fair
- Poor
- 7. Likelihood of Recommending this Training to Others:
- Very Likely
- Likely
- Neutral
- Unlikely
- Very Unlikely
- 8. Did the training session encourage you to learn more about LED technology?
- Yes/
- No
- 9. Overall Training Experience:
- Excellent
- Good
- Fair
- Poor

**10. Additional Comments or Suggestions:** 

Dr. LEENA, A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



# HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

# **FEEDBACK FORM**

Thank you for participating in our 5-days LED bulb training session. Your feedback is valuable to us as we strive to continuously improve our training programs. Please take a few moments to share your thoughts and suggestions regarding the training you received.

## **Participant Information:**

Name: Anwind Date: Bloy 23 Training Session Evaluation:

### 1. Overall Satisfaction:

- Very Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied
- 2. Relevance of Training Content:
- Highly Relevant
- Relevant
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- 3. Clarity of Instruction:
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- Somewhat Clear
- Unclear
- 4. Quality of Training Materials:
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- Fair
- Poor

Dr. LEENA A. V. PRINCIPAL SREE NARA/ANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

#### 5. Effectiveness of Hands-on Exercises:

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- Somewhat Effective
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  - Good
  - Fair
  - Poor
  - 7. Likelihood of Recommending this Training to Others:
- Very Likely
  - Likely
  - Neutral
  - Unlikely
  - · Very Unlikely
  - 8. Did the training session encourage you to learn more about LED technology?
- Yes
  - No
  - 9. Overall Training Experience:
  - Excellent
  - Good
  - Fair
  - Poor
  - **10. Additional Comments or Suggestions:**

DI. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



# HANDS ON TRAINING ON PCB DESIGN AND FABRICATION

# FEEDBACK FORM

Thank you for participating in our 5-days LED bulb training session. Your feedback is valuable to us as we strive to continuously improve our training programs. Please take a few moments to share your thoughts and suggestions regarding the training you received.

### **Participant Information:**

Name: Manayh-h Date: 23/04/23 Training Session Evaluation:

- 1. Overall Satisfaction:
- Very Satisfied
- Satisfied
  - Neutral
  - Dissatisfied
  - Very Dissatisfied
  - 2. Relevance of Training Content:
- Highly Relevant
  - Relevant
  - Somewhat Relevant
  - Not Relevant
  - 3. Clarity of Instruction:
  - Very Clear
  - Clear
  - Somewhat Clear
  - Unclear
  - 4. Quality of Training Materials:
  - Excellent
  - Good
  - Fair
  - Poor

Dr. LEENA A. V. PRINCIPAL SREE MARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

- 5. Effectiveness of Hands-on Exercises:
- Very Effective
- Effective
- Somewhat Effective
- Ineffective
- 6. Interaction with Instructor:
- Excellent
- Good
- Fair
- Poor
- 7. Likelihood of Recommending this Training to Others:
- Very Likely
- Likely
- Neutral
- Unlikely
- Very Unlikely
- 8. Did the training session encourage you to learn more about LED technology?
- Yes
- No
- 9. Overall Training Experience:
- Excellent
- Good
- Fair
- Poor

**10. Additional Comments or Suggestions:** 

Toscellant

Dr. LEENA A. V. PRINCIPAL SREE NAFA/ANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, FAYYANUR KANNUR



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

# **POST EVENT ANALYSIS FORM**

# I. TOBEFILLED BYTHEEVENTCOORDINATOR(S)

| 1  | Event type conducted  | PCB WORKSHOP                                    |  |  |
|----|---|---|--|--|
| 2  | Event name  | HANDS ON TRAINING ON PCB DESIGN AND FABRICATION |  |  |
| 3  | Date and time of the<br>event conducted   | 30.03.2023 to 3.04.2023<br>09:30am - 03:30pm    |  |  |
| 4  | Venue   | LED Manufacturing unit                          |  |  |
| 5  | Whether the event was<br>inter departmental? If<br>yes,mention the<br>department(s)<br>Associated with                                      | No. Electrical and Electronics Engineering      |  |  |
| 6  | Mode of conduct [online<br>\offline]  | Offline   |  |  |
| 7  | 7 Is there any deviation from<br>7 the proposal in the date, time<br>and venue of the event? If<br>yes,<br>Mention the reason for<br>change |   |  |  |
| 8  | Whether any professional<br>body was associated with<br>the event?<br>If yes, name the body   | No · ·  |  |  |
| 9  | Any funds received from the<br>professional body?<br>Indicate the amount  | YES   |  |  |
| 10 | Participants/Target Audience  | All students                                    |  |  |



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|    |   | No Skill development   |  |
|----|---|--|--|
| 11 | w nether the event is<br>conducted for bridging the<br>gap in syllabus?<br>If Yes, name the course with<br>code and the semester and<br>year it the subject is<br>handled | , oku development  |  |
| 12 | Objectives of the event   | <ul> <li>Educational Insight: To familiarize participants with the<br/>fundamentals of PCB design. To provide practical training on<br/>using PCB design software.</li> </ul>  |  |
|    |   | • Skill Enhancement: Enhance students' skills and creativity<br>by encouraging participation in training sessions. To educate<br>participants about the PCB fabrication process. To enable<br>participants to create their PCB designs and fabricate them.   |  |
|    |   | • Holistic Learning: Encourage interdisciplinary learning by allowing students to engage in different types of activities that cater to their diverse interests and talents, aligning with the holistic nature of the B. Tech curriculum.  |  |
|    |   | • <b>Teamwork and Collaboration:</b> Promote teamwork and collaboration through group activities. Participants gained a comprehensive understanding of PCB design principles and techniques.   |  |
|    |   | • Hands-on experience: Enabled participants to create their<br>PCB designs effectively. Participants learned how to<br>optimize designs for fabrication, ensuring manufacturability<br>and reliability. Increased confidence among participants in<br>using PCB design software and submitting designs for<br>fabrication. |  |
| 13 | Expected Outcomes   | Hands on experience in creating PCB designs for project work   |  |
| 15 | Connected PO<br>/PSO  | PO1,PO3,PO5,<br>PO 9,PO 11,PO12  |  |
| 16 | Justification forPO/PSO<br>[may use separate sheet<br>if necessary]   | Engineering knowledge, Problem Analysis, Design /<br>Development Of Solution, Modern tool usage, Individual and<br>Team work, Project Management and Finance Life Long<br>Learning   |  |
| 17 | Whether feedback forms<br>from audience and<br>resource person,is<br>collected?   | Yes  |  |

PAGE20F2

| 18 | Whether analysis of<br>feedback is done? Use<br>separate sheet to<br>indicate<br>the same | Yes  |  |
|----|---|--|--|
| 19 | Attainment level<br>of outcomes   |  |  |
| 20 | Name of the resource person   | Ms. Archana C P, Mr.Sreeraj                                  |  |
| 21 | Designation of the resource person(s)   | Asst. Professor EEE, The lab instructor EEE                  |  |
| 22 | Any other<br>relevant<br>information  | Nil  |  |
| 23 | Name of the<br>event<br>coordinator(s)  | Ms. Archana C P( AP EEE), Mr. Sreeraj(The lab instructor EEE |  |
| 24 | Dated signature of the coordinator(s)   | Just to Hear   |  |

# II. **TOBEFILLEDBYTHEDEPARTMENTHOD**(anyone of the HoD, in case if the event is jointly conducted by various department(s))

# List of enclosures-To be maintained in the file

| SI<br>No: | ,<br>ITEM   | AVAILABILITY[YES<br>/NO] |
|-----------|---|--------------------------|
| 1         | Posters   | Yes                      |
| 2         | Schedule of the event   | Yes                      |
| 3         | Registration form sample copy   | No                       |
| 4         | All registration forms duly filled and signed                         | No                       |
| 5         | Profile of the resource person(s)                                     | No                       |
| 6·        | Feedback forms filled by participants and resource person             | YES                      |
| 7         | Feedback analysis sheet   | 4E5 '                    |
| 8         | CO attainment calculation sheet                                       | No                       |
| 9         | Study Materials(if any)   | No                       |
| 10        | Letters or printouts of e-mail communication<br>Relevant to the event | Yes                      |
| 11        | Documents related to professional body associated with the event      | Yes                      |

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| Photographs of the event                                   | 'les   |
|--|--|
| Comments about the conduct of the event                    | -  |
| Comments about the resource person and impact of the event | -  |
| Name   | Abrilost. Frishnen The   |
| Dated Signature  | Ashier.  |
|  | Photographs of the event Comments about the conduct of the event Comments about the resource person and impact of the event Name Dated Signature |

### COMMENTS FROM PRINCIPAL

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# DATED SIGNATURE OF THE PRINCIPAL:

2023 oh 06

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

PAGE 3 OF 2



SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

> Korom, Chalakkode P.O., Payyanur, Kannur - 670307 Managed by Sree Bhakthi Samvardhini Yogam, Talap, Kannur Affiliated to APJ Abdul Kalam Technological University and Approved by AICTE

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# WEB DEVELOPMENT TECHNOLOGIES

**RESOURCE PERSON** 



# **Ms.SREESHA GOVIND**

Assistant Professor SNGCET

**EVENT COORDINATOR** 

Ms. SREERAJI NARAYANAN Assistant Professor SNGCET VENUE MEETING HALL

18/02/2019- 22/02/2019 9.00 AM - 4.00 PM

PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANU 61KANNUR



# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY PAYYANNUR

# **EVENT PROPOSAL FORM**

# Submitted by the department of Computer Science and Engineering

# TO BE FILLED BY THE EVENT COORDINATOR(S)

| 1  | Event type  | WORKSHOP  |  |  |
|----|---|---|--|--|
| 2  | Event name  | WEB DEVELOPMENT TECHNOLOGIES  |  |  |
| 3  | Whether the event is inter<br>departmental? If yes,<br>mention the other<br>department(s) associated<br>with  | NO<br>NO  |  |  |
| 4  | Mode of conduct [online /<br>offline]   | Offline   |  |  |
| 5  | Date and time   | 18/02/2019, 9:00 AM -4:00 PM<br>22/02 2019  |  |  |
| 6  | Venue   | Meeting hall  |  |  |
| 7  | Whether any professional<br>body is associated with the<br>event?<br>If yes, name the body  | NO  |  |  |
| 8  | Participants / Target Audience  | S6 CSE STUDENTS   |  |  |
| 9  | Whether the event is<br>conducted for bridging the gap<br>in syllabus?<br>If Yes, name the course with<br>code and the semester and<br>year it the subject is handled | No  |  |  |
| 10 | Objectives of the event   | <ul> <li>Upon completion of the workshop, students will gain proficiency in fundamental web development languages such as HTML5, CSS3, and JavaScript, aligned with industry standards. By the end of the workshop, attendees will be able to create basic web pages and style them using modern CSS techniques.</li> <li>By the end of the workshop, students will be introduced to popular front-end frameworks like Bootstrap or Foundation, commonly used for rapid prototyping and responsive web design.</li> </ul> |  |  |

PAGE 1 OF 2

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

| 11 | Expected Outcomes   | Students will gain proficiency in foundational web development<br>skills including HTML, CSS, JavaScript backend development,<br>enabling them to create responsive and interactive web applications .<br>PO1-ENGINEERING<br>KNOWLEDGE<br>PO-6-ENGINEER AND SOCITY<br>P12-LIFELONG LEARNING   |  |
|----|---|---|--|
| 12 | Connected PO /<br>PSO   |   |  |
|    | 0.2020  | PO1 - Engineering Knowledge:  |  |
|    | er Science and Engine<br>COORDIN ATOR(S)  | <ul> <li>Justification: The workshop immerses participants in hands-<br/>on exercises centred around essential web development<br/>technologies such as HTML, CSS, and JavaScript, which<br/>form the backbone of modern web applications. This<br/>practical experience is paramount as it equips participants<br/>with the foundational skills necessary to create visually<br/>appealing and interactive web interfaces. By gaining</li> </ul>   |  |
|    |   | proficiency in these core technologies, participants can<br>effectively translate design concepts into functional web<br>pages, laying a solid groundwork for their journey into web<br>development.  |  |
|    |   | PO6 - Engineer and Society:   |  |
|    |   | • In today's digital age, proficiency in web development  |  |
|    | Justification for PO / PSO  | technologies is essential. This workshop empowers<br>participants with skills in HTML, CSS, JavaScript, and<br>related tools to design and maintain modern web<br>applications. It fosters responsible technology usage and   |  |
| 13 | [may use separate sheet if<br>necessary]  | promotes inclusivity. Participants gain invaluable<br>troubleshooting and upgrading skills. The workshop<br>underscores responsible decision-making in engineering and<br>encourages environmental consciousness. Overall, it equips<br>individuals with vital skills and fosters a holistic<br>understanding of web development's societal impact  |  |
|    |   | P12 - Lifelong Learning:  |  |
|    | S<br>Provide the workshop, str  | <ul> <li>The workshop on web development technologies cultivates<br/>lifelong learning by fostering a curiosity-driven approach to<br/>technology. Through interactive exercises and problem-<br/>solving tasks, participants develop a mindset of continuous<br/>growth and exploration. Furthermore, the workshop<br/>motivates participants to pursue additional knowledge and<br/>skills autonomously, be it through further experimentation<br/>with web technologies or through ongoing professional<br/>development in the realm of engineering.</li> </ul>  |  |
|    | r in fandarrend, ven geveler<br>Malif, e 553, ann lannsen<br>Maria, 87 ite mil af die ver | proniciera proniciera a la companya de la companya |  |
| 14 | Name of the resource<br>person(s)   | Mrs.Sreesha Govind  |  |
| 15 | Designation of the resource<br>person (may attach<br>separate sheet to indicate           | Technical lab staff   |  |

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR PAGE 2 OF 2

DE LEENN-A. V. PRINCIPAL

| 17 | Whether feedback forms<br>from audience and resource<br>person is collected?           | Yes                    |
|----|--|------------------------|
| 18 | Whether analysis of<br>feedback is done? Use<br>separate sheet to indicate<br>the same | Yes                    |
| 19 | Attainment level of<br>outcomes  | NA                     |
| 20 | Name of the resource<br>person   | Mrs.Sreesha Govind     |
| 21 | Designation of the resource person(s)  | Technical lab staff    |
| 22 | Any other relevant information   | -                      |
| 23 | Name of the event<br>coordinator(s)  | Mrs.Sreeraji Narayanan |
| 24 | Dated signature of the<br>coordinator(s)   | 8-04 TA                |

#### TO BE FILLED BY THE DEPARTMENT HOD (any one of the HoD, in Π. case if the event is jointly conducted by various department(s))

List of enclosures - To be maintained in the file

| SI<br>No: | ITEM  | AVAILABILITY [YES / NO] |
|-----------|---|-------------------------|
| 1         | Posters   | Yes                     |
| 2         | Schedule of the event   | NA                      |
| 3         | Registration form sample copy   | NA                      |
| 4         | All registration forms duly filled and signed                         | NA                      |
| 5         | Profile of the resource person(s)                                     | NA                      |
| 6         | Feedback forms filled by participants and resource person             | Y25                     |
| 7         | Feedback analysis sheet   | Yes                     |
| 8         | CO attainment calculation sheet                                       | -                       |
| 9         | Study Materials (if any)  | Yes                     |
| 10        | Letters or printouts of e-mail communication<br>relevant to the event | -                       |
| 11        | Documents related to professional body associated with the event      | -                       |

Or LEEN SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

PAGE 3 OF 2

| 12 | Photographs of the event                                   | -          |
|----|--|------------|
| 1  | Comments about the conduct of the event                    | hood       |
| 2  | Comments about the resource person and impact of the event |            |
| 3  | Name   | Anithy IC  |
| 4  | Dated Signature  | Alf sizier |

# **COMMENTS FROM PRINCIPAL**

**DATED SIGNATURE OF THE PRINCIPAL:** 

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Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

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# SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINNERING

### Summary Report of the Workshop on Web Development Technologies

#### Date: 18th February 2019 to 22th February 2019

Venue: Meeting Hall, Department of Computer Science and Engineering (CSE), Sree Narayana Guru College of Engineering and Technology (SNGCET)

The Department of Computer Science and Engineering (CSE) at Sree Narayana Guru College of Engineering and Technology (SNGCET) organized a workshop on "Web Development Technologies" from February 18th to February 22nd, 2019. The objective of this workshop was to provide students with valuable insights into various web development technologies.

The event was inaugurated by Dr. Janardhanan P V, the Principal of SNGCET, and Ms. Amitha I C, the Head of Department (HoD) of SNGCET. Ms. Shreesha Govind, Assistant Professor at SNGCET, served as the resource person for the workshop.

During the workshop, participants were introduced to fundamental concepts of web development, including HTML, CSS, JavaScript, and various frameworks and libraries. Hands-on sessions were conducted to provide practical experience in building web applications and websites.

Overall, the workshop was well-received by students, who expressed appreciation for the comprehensive coverage of topics and the opportunity to learn from experienced team members. The event concluded successfully, with students gaining valuable knowledge and skills in web development technologies.

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNCLOGY, PAYYANUR KANNUR

# Feedback Form for Wotkshop on Web Development Technologies (1: Low 5: High)

20 responses

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#### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY



# WEB DEVELOPMENT TECHNOLOGIES

#### A WORKSHOP ON WEB DEVELOPMENT TECHNOLOGIES

#### ATTENDANCE SHEET

#### **VENUE: MEETING HALL**

| SL NO, | REG NO.     | NAME                        |
|--------|-------------|-----------------------------|
| 1      | SNC16CS001  | АВНІЛТН К                   |
| 2      | SNC16CS002  | ABHINAV DIVAKARAN           |
| 3      | SNC16CS004  | ADARSH KUMAR O.V            |
| 4      | SNC16CS005  | AISWARYA AV                 |
| 5      | SNC16CS007  | AKSHAY T                    |
| 6      | SNC16CS012  | ASHNA RAGESH                |
| 7      | SNC16CS013  | ASWIN SADANAND              |
| 8      | SNC16CS014  | ATHULYA K P                 |
| 9      | SNC16CS017  | EBRAHIM SAINUDHEEN          |
| 10     | SNC16CS020  | GOPIKA SURESHBABU P         |
| 11     | SNC16CS023  | JAISHNA JAYASENAN           |
| 12     | SNC16CS025  | MOHAMED SHUJAATH SHAFEER VT |
| 13     | SNC16CS026  | MOHAMMED ANFAZ              |
| 14     | SNC16CS032  | P ABHIJITH MOHANAN          |
| 15     | SNC16CS033  | PATHMASANA K P              |
| 16     | SNC16CS037  | SANJANA P                   |
| 17     | SNC16CS042  | SREELAKSHMI PV              |
| 18     | SNC16CS043  | VAISHAK A P                 |
| 19     | SNC16CS044  | VARUN V                     |
| 20     | LSNC16CS046 | VIPEESH T                   |

greens

**Event Co-ordinator** 

Leve 0 HoD

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY



WEB DEVELOPMENT TECHNOLOGIES A WORKSHOP ON WEB DEVELOPMENT TECHNOLOGIES

ATTENDANCE SHEET

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| SL NO. | REG NO.      | NAME   | 18-02-2019 | 19-02-2019                            | 20-02-2018 | 21-02-2019 | 22-02-2019 |
|--------|--------------|--|------------|---------------------------------------|------------|------------|------------|
| 1      | SNC16CS001   | ABHUITH K  | Aburte     | Annual                                | mining     | Abrillion  | - Andr     |
| 2      | SNC16CS002   | ABHINAV DIVAKARAN  | Attinui    | Herrie .                              | Abring     | April 100  | Abrian     |
| 3      | SNC16CS004   | ADARSH KUMAR O.V   | 4 deale    | Adaula-                               | Adailte    | Adarda     | Adardo.    |
| 4      | SNC16CS005   | AISWARYA AV  | ALENDERA   | tesularya                             | ALMERY     | Achergan   | Acousty    |
| 5      | SNC16CS007   | AKSHAY T   | i.         | A                                     | A.         | Her.       | XX         |
| 9      | SNC16CS012   | ASHNA RAGESH   | cheft.     | Ale                                   | +75        | 4 yrs      | stut.      |
| 7      | SNC16CS013   | ASWIN SADANAND   | A          | À.                                    | A          | Ŧ          | H.         |
| 8      | SNC16CS014   | ATHULYA K P  | Alm        | Athin                                 | Marin      | Aller      | Alar.      |
| 6      | SNC16CS017   | EBRAHIM SAINUDHEEN   | ELEO .     | A A A A A A A A A A A A A A A A A A A | Cathor     | ATT A      | - may      |
| 10     | SNC16CS020   | GOPIKA SURESHBABU P  | (Ed.       | 61:                                   | Co)        | (ad-       | Col-       |
| 11     | SNC16CS023   | JAISHNA JA YASENAN   | Tadian     | Jacker                                | Jachne     | 3astine    | Jachme     |
| 12     | SNC16CS025   | MOHAMED SHUJAATH SHAFEER VT  | a forth    | checks                                | Shorthon   | charde     | Shorts     |
| 13     | SNC16CS026   | MOHAMMED ANFAZ   | PP)        | Ter .                                 | J.         | A          | in         |
| 14     | SNC16CS032   | P ABHIJITH MOHANAN   | clows      | Act -                                 | Alua       | three      | Hard.      |
| 15     | SNC16CS033   | PATHMASANA K P   | Batter     | Patter                                | petter     | petterd    | Centron .  |
| 16     | SNC16CS037   | SANJANA P  | Rentert    | Sandenie                              | semplar    | manular    | Tornyan    |
| 17     | SNC16CS042   | SREELAKSHMI PV   | Reserve    | and the                               | Cont       | Sie        | Jus        |
| 18     | SNC16CS043   | VAISHAK A P  | ( initial  | interior -                            | ( Tailling | Cutoting.  | ( internet |
| 19     | SNC16CS044   | VARUN V  | Hanny      | Anne                                  | Agama      | Anna       | Home       |
| 20     | LSNC16CS046  | VIPEESH T  | ide        | dit                                   | idel       | idi        | G.         |
|        | Holeway      | Nu   | -          |                                       | M          |            |            |
| Event  | Co-ordinator | Dr. LEENA A<br>PRINCIPAL<br>SREE MARAYANA GURU CO<br>ENGINEERING & TECHNOLOGI<br>KANNINGOO | C V.       |                                       | No.        | HoD        |            |
|        |              | MONIANA  |            |                                       |            |            |            |
2018-19



## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

Korom, Chalakkode P.O., Payyanur, Kannur - 670307 Managed by Sree Bhakthi Samvardhini Yogam, Talap, Kannur Affiliated to APJ Abdul Kalam Technological University and Approved by AICTE



# CERTIFICATE of participation

Presented to **ASWIN SADANAND, S6 CSE** for attending five days Work shop on **WEB DEVELOPMENT TECHNOLOGIES** conducted by Department of Computer Science and Engineering from 18/02/2019 to 22/02/2019.

Sreeraji Narayanan COORDINATOR

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

Amitha I C HOD CSE

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Korom, Chalakkode P.O., Payyanur, Kannur - 670307 Managed by Sree Bhakthi Samvardhini Yogam, Talap, Kannur Affiliated to APJ Abdul Kalam Technological University and Approved by AICTE



# CERTIFICATE of participation

Presented to **AISWARYA AV, S6 CSE** for attending five days Work shop on **WEB DEVELOPMENT TECHNOLOGIES** conducted by Department of Computer Science and Engineering from 18/02/2019 to 22/02/2019.

Sreeraji Narayanan COORDINATOR

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

Amitha I C HOD CSE



Korom, Chalakkode P.O., Payyanur, Kannur - 670307 Managed by Sree Bhakthi Samvardhini Yogam, Talap, Kannur Affiliated to APJ Abdul Kalam Technological University and Approved by AICTE



# CERTIFICATE of participation

Presented to **ADARSH KUMAR O.V, S6 CSE** for attending five days Work shop on **WEB DEVELOPMENT TECHNOLOGIES** conducted by Department of Computer Science and Engineering from 18/02/2019 to 22/02/2019.

Sreeraji Narayanan COORDINATOR

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

Amitha I C HOD CSE



## SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY PAYYANNUR POST EVENT ANALYSIS FORM

### Submitted by the department of Computer Science and Engineering

### I. TO BE FILLED BY THE EVENT COORDINATOR(S)

| 1  | Event type conducted  | WORKSHOP                     |
|----|---|------------------------------|
| 2  | Event name  | WEB DEVELOPMENT TECHNOLOGIES |
| 3  | Date and time of the event conducted  | 18/02/2019, 9:00 AM -4:00 PM |
| 4  | Venue   | Meeting hall                 |
| 5  | Whether the event was<br>interdepartmental? If yes,<br>mention the department(s)<br>associated with   | NO                           |
| 6  | Mode of conduct [online \ offline]  | Offline                      |
| 7  | Is there any deviation from the<br>proposal in the date, time and<br>venue of the event? If yes,<br>mention the reason for change                                     | No                           |
| 8  | Whether any professional<br>body was associated with the<br>event?<br>If yes, name the body   | No                           |
| 9  | Any funds received from the<br>professional body? Indicate<br>the amount  | No and a state               |
| 10 | Participants / Target Audience  | S6 CSE STUDENTS              |
| 11 | Whether the event is<br>conducted for bridging the gap<br>in syllabus?<br>If Yes, name the course with<br>code and the semester and<br>year it the subject is handled | No                           |

PAGE 1 OF 2

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF SENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

V.A AMEE

| 12 | Objectives of the event  | • Upon completion of the workshop, students will workshop,<br>students will gain proficiency in fundamental web<br>development languages such as HTML5, CSS3, and<br>JavaScript, aligned with industry standards. By the end of<br>the workshop, attendees will be able to create basic web<br>pages and style them using modern CSS techniques.   |
|----|--|--|
| 13 | Expected Outcomes  | <ul> <li>Students will gain proficiency in foundational web<br/>development skills including HTML, CSS, JavaScript<br/>and backend development, enabling them to create<br/>responsive and interactive web applications.</li> </ul>  |
|    | Connected PO /<br>PSO  | PO1-ENGINEERING<br>KNOWLEDGE<br>PO-6-ENGINEER AND SOCITY<br>P12-LIFELONG LEARNING  |
|    | (S)HOLVNICHOG  | PO1 - Engineering Knowledge:   |
|    | EMITER HNOLIOUS<br>MALEAGEN  | <ul> <li>Justification: The workshop immerses participants in hands-<br/>on exercises centred around essential web development<br/>technologies such as HTML, CSS, and JavaScript, which<br/>form the backbone of modern web applications. This<br/>practical experience is paramount as it equips participants<br/>with the foundational skills necessary to create visually<br/>appealing and interactive web interfaces. By gaining<br/>proficiency in these core technologies, participants can<br/>effectively translate design concepts into functional web<br/>pages, laying a solid groundwork for their journey into web</li> </ul> |
|    |  | development.   |
|    |  | PO6 - Engineer and Society:  |
|    |  | <ul> <li>In today's digital age, proficiency in web development<br/>technologies is essential. This workshop empowers</li> </ul>   |
| 16 | Justification for PO / PSO<br>[may use separate sheet if<br>necessary] | participants with skills in HTML, CSS, JavaScript, and<br>related tools to design and maintain modern web applications.<br>It fosters responsible technology usage and promotes<br>inclusivity. Participants gain invaluable troubleshooting and<br>upgrading skills. The workshop underscores responsible<br>decision-making in engineering and encourages<br>environmental consciousness. Overall, it equips individuals<br>with vital skills and fosters a holistic understanding of web<br>development's societal impact   |
|    |  | P12 - Lifelong Learning  |
|    |  | <ul> <li>The workshop on web development technologies cultivates<br/>lifelong learning by fostering a curiosity-driven approach to<br/>technology. Through interactive exercises and problem-<br/>solving tasks, participants develop a mindset of continuous<br/>growth and exploration. Furthermore, the workshop<br/>motivates participants to pursue additional knowledge and<br/>skills autonomously, be it through further experimentation<br/>with web technologies or through ongoing professional<br/>development in the realm of engineering</li> </ul>  |

Dr. LEENA A.V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR 76

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Dr. LEEMA A. V.

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|    | the profile)   |  |
|----|--|--|
| 16 | Resource requirements  | System, Projector, Mike, Hardware components |
| 17 | Any fund from external<br>source will be received? If<br>yes, mention it.                                | No   |
| 18 | Whether budget for the<br>event is attached? (use<br>separate sheet to indicate<br>the estimated budget) | No   |
| 19 | Any other relevant information   | No   |
| 20 | Name of the event<br>coordinator(s)  | Mrs.Sreeraji Narayan &                       |
| 21 | Dated signature of the coordinator(s)  | 8  |

## I. TO BE FILLED BY THE DEPARTMENT HOD (any one of the HoD, in case if the event is jointly conducted by various department(s))

| 1 | Comments on the relevance of the event               |                                       |
|---|--|---------------------------------------|
| 2 | Recommendation [Put a tick $$ on whichey applicable] | ver is Recommended<br>Not Recommended |
| 3 | Name   | Amitha IC                             |
| 4 | Dated Signature                                      | And Silen                             |

#### **COMMENTS FROM PRINCIPAL**

**APPROVED / NOT APPROVED** 

**DATED SIGNATURE OF THE PRINCIPAL:** 

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

Department of Mechanical Engineering Organising

5 Day Workshop on 3D printing

Exclusively for FINAL & PRE FINAL YEAR MECHANICAL ENGINEERING STUDENTS



13-17 March 2023

Start 10.00 AM Onwards

DI. LEENA A.V. PRINCIPAL SREENARAYANA GURU COLLEGE OF

Venue : Mechanical Seminar Hall

**Key Features:** 

- . Self developed design
- . 3D Printing trends
- . Challenges in 3D printing
- . Post processing operations





CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307





#### DEPARTMENT OF MECHANICAL ENGINEERING

### **5 DAY WORKSHOP ON 3D PRINTING**

### **DAY 1 ATTENDENCE LIST**

| S.NO | NAME                       | SEMESTER  | SIGN     |
|------|----------------------------|-----------|----------|
| 1    | ADARSH.P.K                 | S8        | defut    |
| 2    | ADWAIDH BALAN              | S8        | Adubato  |
| 3    | ANURAG A                   | S8        | RAM      |
| 4    | ASWANTH.C                  | S8        | Assert   |
| 5    | ATHUL.B                    | S8        | All      |
| 6    | BIPIN.K                    | S8        | BR       |
| 7    | FARHAN.C                   | S8        | Takar    |
| 8    | JASIN.P                    | S8        | astist   |
| 9    | MOHAMMED AAFIL ISMAYIL.M.K | S8        | Nahamad  |
| 10   | MRIDUL.C                   | S8        | Stalle   |
| 11   | NITHIN.A                   | S8        | Nit      |
| 12   | SANDESH K DINESH           | S8        | Soul     |
| 13   | ARJUN SHYLESH              | \$6       | An       |
| 14   | ASHISH K                   | S6        | Che -    |
| 15   | ASHWIN JOHN                | S6        | Athun bh |
| 16   | ASWIN BABU M V             | S6        | Alburit  |
| 17   | MOHAMMED SHAD ABDUL SATHAR | <u>S6</u> | the      |
| 18   | SOURAG K                   | S6        | And      |
| 19   | ARJUN SHYLESH              | Sé        | And      |
| 20   | ASHISH K                   | S6        | Ashult   |

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LI. LEENA A.V. PEINCIPAL SREENARAYAM GUI J COLLIGE OF ENCINEERING & TUINOLOGY, PAYYANUR KANNUR



DEPARTMENT OF MECHANICAL ENGINEERING

### **5 DAY WORKSHOP ON 3D PRINTING**

## **DAY 2 ATTENDENCE LIST**

| S.NO | NAME                       | SEM  | SIGN      |
|------|----------------------------|------|-----------|
| 1    | ADARSH.P.K                 | S8   | dette     |
| 2    | ADWAIDH BALAN              | S8   | AdiBalan  |
| 3    | ANURAG A                   | S8   | Rapau     |
| 4    | ASWANTH.C                  | S8   | XXXXX     |
| 5    | ATHUL.B                    | S8   | Att       |
| 6    | BIPIN.K                    | S8   | Bini      |
| 7    | FARHAN.C                   | S8   | Foundary  |
| 8    | JASIN.P                    | S8   | detus     |
| 9    | MOHAMMED AAFIL ISMAYIL.M.K | S8   | Nulamont. |
| 10   | MRIDUL.C                   | S8   | section   |
| 11   | NITHIN.A                   | S8   | Nitt      |
| 12   | SANDESH K DINESH           | S8   | Com       |
| 13   | ARJUN SHYLESH              | S6   | An        |
| 14   | ASHISH K                   | S6   | diff.     |
| 15   | ASHWIN JOHN                | S6   | Acture    |
| 16   | ASWIN BABU M V             | S6   | Achural   |
| 17   | MOHAMMED SHAD ABDUL SATHAR | S6   | he        |
| 18   | SOURAG K                   | S6   | Downs     |
| 19   | ARJUN SHYLESH              | S6   | A         |
| 20   | ASHISH K                   | S6Xu | Achistry  |

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYNALIR



#### DEPARTMENT OF MECHANICAL ENGINEERING

### **5 DAY WORKSHOP ON 3D PRINTING**

### **DAY 3 ATTENDENCE LIST**

| S.NO | NAME                       | SEM   | SIGN        |
|------|----------------------------|-------|-------------|
| 1    | ADARSH.P.K                 | S8    | det         |
| 2    | ADWAIDH BALAN              | S8    | Adulan      |
| 3    | ANURAG A                   | S8    | Kangy       |
| 4    | ASWANTH.C                  | S8    | Howent      |
| 5    | ATHUL.B                    | S8    | AAL         |
| 6    | BIPIN.K                    | S8    | ABin'       |
| 7    | FARHAN.C                   | S8    | Farbas      |
| 8    | JASIN.P                    | S8    | adm         |
| 9    | MOHAMMED AAFIL ISMAYIL.M.K | S8    | Nuhammedel  |
| 10   | MRIDUL.C                   | S8    | enter       |
| 11   | NITHIN.A                   | S8    | Nith        |
| 12   | SANDESH K DINESH           | S8    | Same        |
| 13   | ARJUN SHYLESH              | S6    | Am          |
| 14   | ASHISH K                   | S6    | 1.Ab        |
| 15   | ASHWIN JOHN                | S6    | Asturiation |
| 16   | ASWIN BABU M V             | S6    | Sebrauk.    |
| 17   | MOHAMMED SHAD ABDUL SATHAR | S6    | ble         |
| 18   | SOURAG K                   | S6    | ( )         |
| 19   | ARJUN SHYLESH              | S6    | Ani         |
| 20   | ASHISH K                   | S6 Xu | Atust       |



#### DEPARTMENT OF MECHANICAL ENGINEERING

### **5 DAY WORKSHOP ON 3D PRINTING**

### **DAY 4 ATTENDENCE LIST**

| S.NO | NAME                       | SEM       | SIGN      |
|------|----------------------------|-----------|-----------|
| 1    | ADARSH.P.K                 | S8        | duffe     |
| 2    | ADWAIDH BALAN              | S8        | Aduelleta |
| 3    | ANURAG A                   | S8        | BAAN      |
| 4    | ASWANTH.C                  | S8        | treat     |
| 5    | ATHUL.B                    | S8        | Att       |
| 6    | BIPIN.K                    | S8        | Bipi      |
| 7    | FARHAN.C                   | S8        | Farbar    |
| 8    | JASIN.P                    | S8        | ungus t   |
| 9    | MOHAMMED AAFIL ISMAYIL.M.K | S8        | Kuhamment |
| 10   | MRIDUL.C                   | S8        | tilletul  |
| 11   | NITHIN.A                   | S8        | Nitt      |
| 12   | SANDESH K DINESH           | S8        | Server    |
| 13   | ARJUN SHYLESH              | \$6       | Am        |
| 14   | ASHISH K                   | S6        | and -     |
| 15   | ASHWIN JOHN                | S6        | Actures   |
| 16   | ASWIN BABU M V             | S6        | Achuran . |
| 17   | MOHAMMED SHAD ABDUL SATHAR | S6        | I.        |
| 18   | SOURAG K                   | <u>S6</u> | aling     |
| 19   | ARJUN SHYLESH              | S6        | ARF-      |
| 20   | ASHISH K                   | Stere     | Athit     |

Dr. LEENA A. V. PRINCIPAL SREE NARAVAHA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANAGR



#### DEPARTMENT OF MECHANICAL ENGINEERING

#### **5 DAY WORKSHOP ON 3D PRINTING**

### **DAY 5 ATTENDENCE LIST**

| S.NO | NAME                       | SEM | SIGN      |
|------|----------------------------|-----|-----------|
| 1    | ADARSH.P.K                 | S8  | Jakka     |
| 2    | ADWAIDH BALAN              | S8  | Adulada   |
| 3    | ANURAG A                   | S8  | Rept      |
| 4    | ASWANTH.C                  | S8  | Xer       |
| 5    | ATHUL.B                    | S8  | AAL       |
| 6    | BIPIN.K                    | S8  | Bipp      |
| 7    | FARHAN.C                   | S8  | Tailar    |
| 8    | JASIN.P                    | S8  | aster     |
| 9    | MOHAMMED AAFIL ISMAYIL.M.K | S8  | Muhammar. |
| 10   | MRIDUL.C                   | S8  | Selfer    |
| 11   | NITHIN.A                   | S8  | Nith      |
| 12   | SANDESH K DINESH           | S8  | Seml      |
| 13   | ARJUN SHYLESH              | S6  | Am        |
| 14   | ASHISH K                   | S6  | 1646      |
| 15   | ASHWIN JOHN                | S6  | Attustich |
| 16   | ASWIN BABU M V             | S6  | Aluson .  |
| 17   | MOHAMMED SHAD ABDUL SATHAR | S6  | 1000      |
| 18   | SOURAG K                   | S6  | alug-     |
| 19   | ARJUN SHYLESH              | S6  | ANT.      |
| 20   | ASHISH K                   | 86  | Artucht   |



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

## **CERTIFICATE OF PARTICIPATION**

This is to certify that Nithin.A of Sree Narayana Guru College of Engineering and Technology has attended the Five day workshop on 3D Printing organized by the Department of Mechanical Engineering, Sree Narayana Guru College of Engineering and Technology from 13/03/2023 to 17/03/2023

Dr. Sudhin Chandran Co-ordinator

Mr. Jacob Thomas Head of the Department



Dr. Leena A V Principal



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



This is to certify that Sandesh K Dinesh of Sree Narayana Guru College of Engineering and Technology has attended the Five day workshop on 3D Printing organized by the Department of Mechanical Engineering, Sree Narayana Guru College of Engineering and Technology from 13/03/2023 to 17/03/2023

Dr. Sudhin Chandran Co-ordinator

**Mr. Jacob Thomas** *Head of the Department* 





Dr. LEENA AV PRINCIPAL Principal REE NARAYANAGURU COLLEGE OF Principal NEERING & TECHNOLOGY, PAYYANUR



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

## **CERTIFICATE OF PARTICIPATION**

This is to certify that Sourag K of Sree Narayana Guru College of Engineering and Technology has attended the Five day workshop on 3D Printing organized by the Department of Mechanical Engineering, Sree Narayana Guru College of Engineering and Technology from 13/03/2023 to 17/03/2023

Dr. Sudhin Chandran Co-ordinator

**Mr. Jacob Thomas** *Head of the Department* 



Dr. Leena AV TECHNOLOGY, PAY Principal



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307



This is to certify that Adwaidh Balan of Sree Narayana Guru College of Engineering and Technology has attended the Five day workshop on 3D Printing organized by the Department of Mechanical Engineering, Sree Narayana Guru College of Engineering and Technology from 13/03/2023 to 17/03/2023

Dr. Sudhin Chandran Co-ordinator

Mr. Jacob Thomas Head of the Department



PRINCIPAL COLLE Dr. Leena A V Principal



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

## **CERTIFICATE OF PARTICIPATION**

This is to certify that Adarsh.P.K of Sree Narayana Guru College of Engineering and Technology has attended the Five day workshop on 3D Printing organized by the Department of Mechanical Engineering, Sree Narayana Guru College of Engineering and Technology from 13/03/2023 to 17/03/2023

Dr. Sudhin Chandran Co-ordinator

Mr. Jacob Thomas Head of the Department





CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

## **CERTIFICATE OF PARTICIPATION**

This is to certify that Mridul.C of Sree Narayana Guru College of Engineering and Technology has attended the Five day workshop on 3D Printing organized by the Department of Mechanical Engineering, Sree Narayana Guru College of Engineering and Technology from 13/03/2023 to 17/03/2023

Dr. Sudhin Chandran Co-ordinator

Mr. Jacob Thomas Head of the Department



Principal



CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

## **CERTIFICATE OF PARTICIPATION**

This is to certify that Mohammed Shad Abdul Sathar of Sree Narayana Guru College of Engineering and Technology has attended the Five day workshop on 3D Printing organized by the Department of Mechanical Engineering, Sree Narayana Guru College of Engineering and Technology from 13/03/2023 to 17/03/2023

Dr. Sudhin Chandran Co-ordinator



Mr. Jacob Thomas Head of the Department

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Principal



## **5 DAY WORKSHOP ON 3D PRINTING**

## **FEEDBACK FORM**

## Submitted by the Department of Mechanical Engineering

|  | Excellent | Good | Fair | Poor |
|--|-----------|------|------|------|
| 1. Overall how would you rate the training class?  | 7         |      |      |      |
| 2. How would you rate the trainer's communication and presentation skills                |           | P    |      |      |
| 3. Were the interactive elements engaging and beneficial                                 | J         |      |      |      |
| 4. Did you receive enough opportunity for questions and clarification during the session |           | Z    |      |      |
| 5. Did this class meet your expectation  |           | I    |      |      |
| 6. Were the hands-on activities beneficial in understanding concepts                     | Y         |      |      |      |
| 7. Did the workshop offer practical strategies or tools that you can readily apply       |           |      |      |      |
| 8. Were the technical aspects during the workshop satisfactory                           | 0         |      |      |      |
| 9. Rate the level of interaction between the facilitator and participants                |           | 9    |      |      |
| 10. Did the workshop covers emerging trend or advancements in the field                  | I         |      |      |      |
|  | 1         |      |      |      |

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Dr. LEIENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENCINEERING & TECHNOLOGY PAYMANA



## **5 DAY WORKSHOP ON 3D PRINTING**

## **FEEDBACK FORM**

## Submitted by the Department of Mechanical Engineering

|  | Excellent | Good | Fair | Poor |
|--|-----------|------|------|------|
| 1. Overall how would you rate the training class?  | $\square$ |      |      |      |
| 2. How would you rate the trainer's communication and presentation skills                |           |      | 7    |      |
| 3. Were the interactive elements engaging and beneficial                                 |           | 7    |      |      |
| 4. Did you receive enough opportunity for questions and clarification during the session |           | V    |      |      |
| 5. Did this class meet your expectation  |           |      |      |      |
| 6. Were the hands-on activities beneficial in understanding concepts                     | J         |      |      |      |
| 7. Did the workshop offer practical strategies or tools that you can readily apply       |           | 2    |      |      |
| 8. Were the technical aspects during the workshop satisfactory                           |           | 2    |      |      |
| 9. Rate the level of interaction between the facilitator and participants                |           | 9    |      |      |
| 10. Did the workshop covers emerging trend or advancements in the field                  |           | T    |      |      |
|  |           |      |      |      |

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Dr. LEENA A. V. PRINCIPAL SREENARAYAYA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYAL 3

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#### **SREE NARAYANA GURU COLLEGE OF** ENGINEERING & TECHNOLOGY . . . .

## **5 DAY WORKSHOP ON 3D PRINTING**

## **FEEDBACK FORM**

## Submitted by the Department of Mechanical Engineering

|  | Excellent | Good   | Fair      | Poor |
|--|-----------|--------|-----------|------|
| 1. Overall how would you rate the training class?  |           | 7      |           |      |
| 2. How would you rate the trainer's communication and presentation skills                | · 🔲       | 2      |           |      |
| 3. Were the interactive elements engaging and beneficial                                 |           |        | 7         |      |
| 4. Did you receive enough opportunity for questions and clarification during the session | I         |        |           |      |
| 5. Did this class meet your expectation  |           |        |           |      |
| 6. Were the hands-on activities beneficial in understanding concepts                     |           |        |           |      |
| 7. Did the workshop offer practical strategies or tools that you can readily apply       | I         |        |           |      |
| 8. Were the technical aspects during the workshop satisfactory                           |           |        |           |      |
| 9. Rate the level of interaction between the facilitator and participants                |           |        | $\square$ |      |
| 10. Did the workshop covers emerging trend or advancements in the field                  | ,         |        |           |      |
| X  | en        | - "Sel |           |      |
|  |           |        |           |      |

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAVY, MUR



#### DEPARTMENT OF MECHANICAL ENGINNERING

#### **Report of the Session on WORKSHOP ON 3D PRINTING**

The Department of Mechanical Engineering (ME) and organized the "Workshop on 3D Printing" from March 13<sup>th</sup> to March 17<sup>th</sup> 2023, at 10 AM in Mechanical department's seminar hall. The aim of the workshop is to make students aware about concept & importance of 3D printing Technology. The workshop was also attended by the staffs of SNGCET. The session commenced with a welcoming address from the event coordinator, Dr. Sudhin Chandran, Assistant Professor of ME, expressing appreciation to participants and faculties for their whole-hearted support.

The workshop started with welcoming guest by respected Head of the Department Mr. Jacob Thomas. The workshop was divided in two sessions, in first session Dr. Abdul Nazar K P has presented and explained to students about back ground of how 3D printing technology evolved. He also explained about the various types of 3D printing technology available in market and how they differ in printing object. In the Second session, Mr. Jacob Thomas demonstrated on 3D printer which they have brought by 3D printing a small component in printer. While demonstration was going on simultaneously sir has also explained about type of raw material required for 3D printing. Sir also explained that depending upon the raw material how the product quality varies and also cost of the component.



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The session focusing on 3D Printing at the workshop proved highly successful, equipping students with knowledge and practical skills for utilizing 3D printers in industrial settings. Participants thoroughly covered all fundamental aspects of 3D printing technology. Exceptionally positive feedback was received from the students regarding their learning experience during the workshop. Such initiatives play a pivotal role in preparing students for the contemporary challenges and opportunities they will encounter. Attendees departed the session with renewed inspiration and a steadfast determination to further refine their concepts, with the aim of making a positive impact on the world through their innovative endeavors. The session, featuring informative presentations and insightful discussions, undoubtedly enriched the academic atmosphere at SNGCET.

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DEPARTMENT OF MECHANICAL ENGINEERING

## 5 Day Workshop on 3D Printing, March 13-17, 2023

|            | DAY 1               |  |  |  |
|------------|---------------------|--|--|--|
| Date       | Time                |  |  |  |
|            | 10:00 AM -10:10 AM  | Introduction   |  |  |
|            |                     | by   |  |  |
|            |                     | Coordinator  |  |  |
|            |                     | Dr. Sudhin Chandran, Dept. of ME, SNGCET                     |  |  |
|            | 10:10 AM -10:15 AM  | Departmental address by                                      |  |  |
|            |                     | Mr. Jacob Thomas   |  |  |
|            |                     | HoD, Dept. of ME, SNGCET                                     |  |  |
| 13-03-2023 |                     | E  |  |  |
| (Monday)   |                     | Dr. Abdul Nazar K P  |  |  |
|            | 10:30 AM-12:00 AM   | Associate Professor  |  |  |
|            |                     | Dept of Mechanical Engineering, GEC                          |  |  |
|            |                     | Kannur   |  |  |
|            |                     | Title: State of the art of 3D printing application.          |  |  |
|            |                     | Expert talk by   |  |  |
|            |                     | Mr. Jacob Thomas   |  |  |
|            |                     | Asst. Professor  |  |  |
|            |                     | SNGCET   |  |  |
|            | 00 00 00 00 00 00 0 |  |  |  |
|            | 02:30 PM-4:00 PM    | Title: 3D Printing technology steps 3D Printing application  |  |  |
|            |                     | fields, 3D Printing equipment, 3D Printing approach to build |  |  |
|            |                     | parts and assemblies.  |  |  |
|            |                     |  |  |  |
|            |                     |  |  |  |

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR

|  |                           |                   | DAY 2  |  |
|--|---------------------------|-------------------|--|--|
|  | 14-03-2023<br>(Tuesday)   | 10:00 AM-11:30 AM | Expert talk by<br>Dr. Abdul Nazar K P,<br>Associate Professor<br>Dept of Mechanical Engineering, GEC<br>Kannur<br>Title: 3D Printing process steps for 3D printing an object post-                                     |  |
|  |                           |                   | processing operations for 3D printed objects.  |  |
|  |                           | 02:30 PM-4:00 PM  | Expert talk by<br>Mr. Jacob Thomas<br>Asst. Professor<br>Dept of Mechanical Engineering,<br>SNGCET<br>Title: 3D Printing approach to build parts and assemblies,<br>post-processing operations for 3D printed objects. |  |
|  | DAY 3                     |                   |  |  |
|  |                           | 10:00 AM-11:30 AM | <b>Expert talk by</b><br>Mr. Pradeepkumar V.<br>Instructor ME, GCE Kannur.   |  |
|  | 15-03-2023<br>(Wednesday) |                   | Title: 3D Printed Energy Storage Devices for Flexible and<br>Wearable Electronics  |  |
|  |                           | 02:30PM-4:00PM    | Expert talk by<br>Dr. Solamon Joseph,<br>Lecturer ME, GPC Periye, Kasargod.<br>Title: Challenges and advantages of 3D printing.  |  |
|  |                           |                   |  |  |

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|                          | Day 4                 |   |  |  |  |  |
|--------------------------|-----------------------|---|--|--|--|--|
| 16-03-2023<br>(Thursday) | 09:30 AM-11:00<br>AM, | Expert talk by<br>Govardhan Kayarthaya B,<br>Lecturer ME, GPC Periye, Kasargod.<br>Title: Technology Drivers for 3D printing, Knowledge on 3D<br>printer software     |  |  |  |  |
|                          | 02:30PM-4:00PM        | Expert talk by<br>Dr. Solamon Joseph,<br>Lecturer ME, GPC Periye, Kasargod.<br>Title: 3D Printing technology, 3D Printing process steps for 3D<br>printing an object. |  |  |  |  |
|                          | DAY 5                 |   |  |  |  |  |
| 17-03-2023<br>(Friday)   | 10:00 AM-11:30<br>AM  | <b>Expert talk by</b><br>Govardhan Kayarthaya B,<br>Lecturer ME, GPC Periye, Kasargod.<br><b>Title: post-processing operations for 3D printed objects.</b>            |  |  |  |  |
|                          | 01:30 PM-3:00<br>PM   | Expert talk by<br>Mr. Jacob Thomas<br>Asst. Professor<br>Dept of Mechanical Engineering, SNGCET<br>Title: Opportunity to design and print self-developed design.      |  |  |  |  |

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#### SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING

## SYLLABUS FOR 3D PRINTING

| Professional Skills(Trade<br>Practical)  | Professional Knowledge(Trade<br>Theory)                  |
|--|--|
| 1. Importance of trade training, List of tools &   | All necessary guidance to be provided to the new         |
| Machinery used in the trade.   | comers to become familiar with the working of            |
| 2. First Ald Method and basictraining.   | storesprocedures   |
| 5. Sale disposal of waste materials like cotion  | Soft Skills, its importance and Job area after           |
| 4 Hazard identification and avoidance  | completion of training                                   |
| 5. Safety signs for Danger, Warning, caution &   | Importance of safety and general precautions             |
| personal safety message.   | observed in the industry/shop floor.                     |
| 6. Preventive measures forelectrical accidents &   | Introduction of First aid. Operation of electrical       |
| steps to be taken in such accidents.   | mainsand electrical safety. Introduction of              |
| 7. Use of Fire extinguishers.  | PPEs. Response to emergencies e.g.; power                |
| 8. Practice and understand precautions to be   | failure, fire, and system failure.                       |
| followed while working in fitting jobs.  | Importance of housekeeping & good shop floor             |
| <ol> <li>Demonstrate the functions of 3D printing and<br/>Scanning</li> </ol>            | practices. Introduction to 5S concept & its application. |
| 10. Demonstrate the functions of 3D printing and   | Occupational Safety & Health: Health. Safety             |
| Scanning. Perform Computer operation:  | and Environment guidelines, legislations &               |
| i)create new folder, ii) add subfolders,   | regulations as applicable.                               |
| create application files, iv) change appearance  |  |
| of windows, v) search for files,<br>vi) sort files vii) copy files viii) create shortcut | Introduction to 3D Printing and Scanning. Basic          |
| folder, ix) create shortcut icon in deskton and  | computer: Introduction to computer, Windows              |
| taskbar x) Move files to and from removable  | operating system, file management system.                |
| disk/ flash drive. xi) Install a printer from driver                                     | Computer hardware and software specification.            |
| software in operating system.  | Engineering Drawing Nomenclature                         |
| 11. Create, save and print a document, worksheet   | description and use of drawing instruments &             |
| and pdf (portable document format) files.  | various equipments used in drawing office. Their         |
| 12. Draw perpendicular, inclined (given angle)   | care and maintenance.                                    |
| and parallel lines. Draw triangles with given  |  |
| 12 Draw incomined and simple in the latitude of  | Units of dimensioning, System of dimensioning,           |
| triangle pentagon and house  | Method of dimensioning & common features.                |
| 14 Draw orthographic projection of out   | Methods of obtaining orthographic view. Position         |
| section/ frustume of solide_ prism cylinders   | of the object, selection of the views, three views       |
| cones pyramids   | of drawing. Planes and their normal projections.         |
| contes, pj runnes.   | Ormographic projection. First angle and third            |
|  | Dr. LEEMA A. V.  |

- 15. Draw 2D objects using: line, polyline, ray, polygon, circle, rectangle, arc, ellipse commands.
- Modify 2D objects using Move, Copy, Array, Insert Block, Make Block, Scale, Rotate, Hatch Commands.
- Perform computer application in 2D drawing space using commands from ribbon, menu bar, toolbars and by typing in command prompt.
- Modify 2D objects using Move, Copy, Array, Insert Block, Make Block, Scale, Rotate, Hatch Commands.
- Draw 3D solid figures by Sketching features & applied features.
- Handle imported geometries using Feature Works – Recognise features to native file formats.
- 21. Create a 3D transition figure
  - Using loft feature.
  - Using sweep feature.
  - Using library features.

i)Create 3D model by annotating Holes and Threads, ii) Create Centrelines, symbols and leaders, iii) Perform seamless Simulation within CAD Apply loads & boundary conditions, Material should come from part definition, contacts etc and perform base simulation.

iv)Plot various results- Stress, Strain, Deformation, Displacement, Factor of Safety plot, Design Insight plot, probe facility, Isoclipping, Section clipping.
v) Create automatic reports vi) Understand 2D simplification.

22. Learn Data Translation – Built in translation facility to export design to DWG, DXF, ProE, IPT(Inventor), Mechanical Desktop, Unigraphics, ParaSolid, CADKEY, IGES, STEP, PAR (SolidEdge), SAT(ACIS), VDA-FS, VRML, STL, TIFF, JPG, Adobe, Rhino, IDF & HSF.(20 hrs) angle projection. Principal of orthographic projection. Projection of solids like prism, cones, pyramids and their frustums.

Introduction to 2D User interface. Drawing of Line, polyline, ray, polygon, circle, rectangle, arc, ellipse using different options. Trim, Offset, Fillet, Chamfer, Arc and Circle under modify commands. Move, Copy, Array, Insert Block, Make Block, Scale, Rotate, Hatch Commands. Creating templates, Inserting drawings, Layers, Modify Layers. Format dimension style, creating new dimension style, Modifying styles in dimensioning. Writing text on dimension line and on leader. Edit text dimension. Knowledge of shortcut keyboard command. Customization of keyboard command. Customization of drafting settings, changing orthographic snap to isometric snap. Procedure to create viewport in layout space in zooming scale.

3D Software: Modeling Design and Introduction to 3D Modeling and Software. User interface - Menu Bar - Command manager -Feature manager - Design Tree - settings on the Default options - suggested settings - key board short cuts. Feature manager Design Tree Selection of plane Control of sketches through parameter and property manager. Featured tools in Command Manager Feature Toolbar. Extrude Boss/Base Revolve Boss/Base Swept Boss/Base Lofted Boss/Base Boundary Boss/Base Extruded cut Hole Wizard Revolved Cut Boundary Cut Fillet, chamfer, mirror Linear pattern and circular Understanding pattern part GD&T with DimXpert Manager

Dr. LEENA A. V. PRINCIPAL SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY, PAYYANUR KANNUR



## REPORT ON CADDQUEST'24 & <HACK>ENGERS PROGRAMME

#### Date: 12-02-2024

#### Time: 2PM

Hackengers and CADD Quest 2024 were two innovative events organized for computer science and information technology (CS/IT) students. Hosted at Sree Narayana Guru College of Engineering & Technology, Payyanur, the events aimed to promote technical skills, innovation, and career development among engineering graduates.

Date and Venue: The event took place at Sree Narayana Guru College of Engineering & Technology, Payyanur, on February 12, 2024, at 2:00 PM.

Eligibility: Second-year to fourth-year engineering graduates were eligible to participate in CADD Quest 2024.

Prize: The event offered a prize of INR 40,000 to the winner, motivating participants to excel in the assessment.

#### Hackengers

Hackengers, a Python-centric hackathon, featured three rounds designed to challenge participants' coding abilities and problem-solving skills.

Round 1: MCQ-based Selection (Individual): This round involved a multiple-choice questionnaire to assess participants' theoretical knowledge in computer science and Python programming. Top performers advanced to the next stage.

**Round 2: Coding Level 1 challenge (Group)** : Selected participants formed groups to tackle coding challenges collaboratively. The emphasis was on teamwork and practical problem-solving using Python. Participants received a participation certificate from NASSCOM for their involvement.

**Round 3: Grand Finale: Coding Level 2 – On-Ground Event :** The grand finale showcased the top teams competing in advanced coding challenges. Winners were awarded cash prizes, with the first prize totaling INR 40,000 and two runner-up teams receiving INR 20,000 each.

#### CADD Quest 2024

CADD Quest 2024 introduced an innovative tech-enabled app designed to assess psychometric, cognitive, and domain-specific skills. The test aimed to help participants identify career paths leading to employment in specific domains.

List of S6 Students who qualified to 2nd round of Hackengers by CADD

- 1. Neeraj Ravi
- 2. Arjun P P
- 3. Sreyas Krishnan
- 4. Sarang V
- 5. Nandana M
- 6. Keerthana K
- 7. Athira K V
- 8. Adarsh K V
- 9. Abiram Sunil
- 10. Athul Pavithran
- 11. Navya P
- 12. AbhinavDharmaraj
- 13. Vyshak Umeshan
- 14. Anudeep K
- 15. Yadukrishnan KV
- 16. B.Sreyas Krishnan
- 17. Jishnu K R
- 18. Vishak KR

### List of S8 Students who qualified to 2nd round of Hackengers by CADD

- 1. Aswathi PI
- 2. Abhishek K
- 3. Riya Rajesh
- 4. Gopika
- 5. Gokul A
- 6. Hamna Sherin
- 7. Muhammed Ansar Safer
- 8. Razi Hamza
- 9. Mohammed Zanil P V
- 10. Abhinav A V
- 11. Arjun M
- 12. Viswajeeth P
- 13. G P Thrishna
- 14. Sneha E
- 15. Amal M V
- 16. Aathish R

**Conclusion:** The combined Hackengers and CADD Quest 2024 event provided a comprehensive platform for CS/IT students to showcase their technical skills, creativity, and career aspirations. Through competitive coding challenges and innovative assessments, participants were encouraged to explore their potential and pursue career paths aligned with their strengths and interests. The events fostered a culture of learning, collaboration, and professional development, contributing to the growth and success of engineering graduates in the evolving technology landscape.

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