



**Department of EEE**  
**Summary Sheet of Add on Courses Conducted**  
**ACADEMIC YEAR 2021-22**

S. No	Name of the Event	Type of the Event	Course Code	Number of Hours	Number of Students Enrolled
1	PROGRAMMING USING AURDINO	Value of Added Course	2021-22/PEC/EEE/VAC07	31 Hrs	102
2	INDUSTRIAL AUTOMATIONPLC & SCAD	Value of Added Course	2021-22/PEC/EEE/VAC08	32 Hrs	51



O.V. Road, KANDUKUR - 523 105.

PRAKASAM (Dist.), AP. INDIA.

T : 08598 222288, 221200, F : 08598 221300

E : pec@prakasamec.com

W : www.prakasamec.com

## Summary report of PROGRAMMING USING AURDINO



PRAKASAM  
ENGINEERING COLLEGE

Value added course			
Document ID:	2021-22/PEC/EEE/VAC07	Document Name:	Summary Report

### Course Summary Report

Value added-courses in "VAC07- PROGRAM USING AURDINO" were organized by the Department of Electrical And Electronics Engineering at Prakasam engineering college from Dec 20 to Dec 24 in 2021. The total period of course is 31 hours. Totally, 102 students have enrolled of this course and participated during the course. The institutes Principal, Dr. Ch. Ravi Kumar appreciated the Departments efforts and congratulated the student for participating. Thanks to entire faculty and co-coordinator, the event was success

Students in the course obtained the following outcomes:

- To understand the fundamentals of Internet of Things.
- To learn about the basics of IoT protocols

### Course photo:



Coordinator

HOD

Principal

PRINCIPAL,  
PRAKASAM ENGINEERING COLLEGE  
KANPURDHAR-521015, Prakasam Dt, AP.



## Brochure of PROGRAMMING USING AURDINO

### CHIEF PATRON

**Dr.K.Ramaiah**

Secretary & correspondant  
Prakasam Engineering college, Kandukur

### PATRON

**Dr. CH.Ravi Kumar** M.Tech.,Ph.D.  
Principal

Prakasam Engineering college, Kandukur

### CONVENER

**Mr.SK.MEERA SHAREEF** M.Tech.,(Ph.D.)

Head of Department  
Department of Electrical and Electronics  
Engineering  
Prakasam Engineering college, Kandukur

### Co-Ordinator

**Mr.S.N.Meeralvi** M.Tech.

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### COURSE OBJECTIVES

To provide knowledge of different Smart System applications.  
To familiarize students with Arduino as IDE, programming language& platform.  
To provide knowledge of Arduino boards and basic components.  
Develop skills to design and implement various smart system applications.

### COURSE OUTCOMES (COS)

To understand the fundamentals of Internet of Things.  
To learn about the basics of IoT protocols.

### EMINENT SPEAKER

**Mr.SK.MEERA SHAREEF** M.TECH.,(Ph.D.)  
Associate Professor  
Prakasam Engineering College, Kandukur

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### Value Added Course

on

### VAC07- PROGRAM USING AURDINO

20-12-2021 to 24-12-2021

Organized by

Department of ELECTRICAL AND ELECTRONICS  
ENGINEERING



### Venue: SEMINAR HALL - 1

### For any details, please contact

Course in-charge

Mr.S.N.Meeralvi M.Tech.

Associate Professor

9885308961

### CONTENT

- Fundamentals of IoT and Design Methodology
- Introduction to Internet of Things
- Definition & Characteristics of IoT
- Physical Design of IoT
- Logical Design of IoT
- IoT Enabling Technologies
- IoT Levels & Deployment Templates
- Introduction
- Difference between IoT and M2M
- Arduino
- Arduino Features
- Spelling Rules
- Variable Types
- Operators
- Function and Arrays.
- Problem-Solving
- Preprocessors Command
- Statements
- Control Structures
- Loop Character Arrays and Strings
- Circuit Design
- Analog Circuit Design
- Type here to search
- Digital Circuit Design
- Circuit Design
- Arduino based Circuit Design

D.V. Road, KANDUKUR - 523 105  
PRAKASAM (DIST.), AP, INDIA  
T: 08598 222286, 221200 F: 08598 221100  
E: pec@prakasam.ac.in  
W: www.prakasam.ac.in



## Summary report of INDUSTRIAL AUTOMATION PLC & SCAD



PRAKASAM  
ENGINEERING COLLEGE

	PRAKASAM ENGINEERING COLLEGE	Value added course
Document ID:	2021-22/PEC/EEE/VAC08	Document Name: Report

### Course Summary Report

Value added-courses in "Industrial Automation – PLC & SCADA" were organized by the Department of Electrical And Electronics Engineering, Prakasam engineering college from 25-04-2022 to 29-04-2022. The total period of course is 32 hours. Totally, 51 students have enrolled of this course and participated during the course. The institute Principal, Dr. Ch. Ravi Kumar appreciated the Department efforts and congratulated the student for participating. Thanks to entire faculty and co-coordinator, the event was success

Students in the course obtained the following outcomes:

- Understand the basics of Industrial Automation
- Understand all the basic concept of PLC & SCADA
- Understand PLC functions.
- Gain the knowledge levels need for PLC programming and operating
- Understand various types of PLC registers

Co-ordinator

HOD

Principal  
PRAKASAM ENGINEERING COLLEGE  
KANDUKUR-523105, Prakasam Dt, A.P



O.V. Road, KANDUKUR - 523 105.  
PRAKASAM (Dist.), AP. INDIA.  
T : 08598 222288, 221200, F : 08598 221  
E : pec@prakasamec.com  
W : www.prakasamec.com

## Brochure of INDUSTRIAL AUTOMATION PLC & SCAD

### CHIEF PATRON

**Dr.K.Ramaiah**

Secretary & correspondant  
Prakasam Engineering college, Kandukur

### PATRON

**Dr. CH.Ravi Kumar** M.Tech.,Ph.D.  
Principal

Prakasam Engineering college, Kandukur

### CONVENER

**Mr.SK.MEERA SHAREEF** M.Tech.,(Ph.D.)

Head of Department  
Department of Electrical and Electronics  
Engineering  
Prakasam Engineering college, Kandukur

### Co-Ordinator

**Mr.P.Yedukondalu** M.Tech.  
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### COURSE OBJECTIVES

- Understand automation technologies and identify advantages, limitations and applications of the same.
- Develop ability to recognize, articulate and solve industrial problems using automation technologies.

### COURSE OUTCOMES (COS)

- Understand the basics of Industrial Automation
- Understand all the basic concept of PLC & SCADA
- Understand PLC functions.
- Gain the knowledge levels need for PLC programming and operating

### EMENANT SPEAKER

**Mr.J.Sateesh, M.TECH(Ph.D)**

Associate Professor  
Prakasam Engineering College, Kandukur

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### Value Added Course

ON  
**VAC08- Industrial Automation – PLC & SCADA**

25-04-2022 to 29-04-2022

Organized by

**Department of ELECTRICAL AND ELECTRONICS  
ENGINEERING**



**Venue: SEMINAR HALL - 1**

### For any details, please contact

Course in-charge  
**Mr.P.Yedukondalu, M.Tech.**  
Assistant Professor  
9963283978

### CONTENT

- Industrial Automation:
- History & Need of Industrial Automation
- Application of Industrial Automation
- Basic Components of Automation
- Hardware Classification of Automation.
- PLC Basics:
- Historical Background
- Principles of Operation
- PLCs Versus Other Types of Controls
- Basic Procedure for PLC programming
- Advantages of PLCs.
- Input/output Devices
- PLC Registers

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