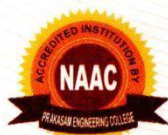




Department of EEE
Summary Sheet of Add on Courses Conducted
ACADEMIC YEAR 2021-22

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



Summary report of PROGRAMMING USING ARDUINO



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 ARDUINO" 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:



Co-ordinator

HOD

Principal

PRINCIPAL
PRAKASAM ENGINEERING COLLEGE
KANTYUR-523105, Prakasam Dt, AP



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W : www.prakasamtec.com

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Brochure of PROGRAMMING USING ARDUINO

CHIEF PATRON
Dr.K.Ramaiah
Secretary & correspondent
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.Meeravali M.Tech.
Associate Professor

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 **PRAKASAM**
ENGINEERING COLLEGE
Approved by AICTE, New Delhi | Affiliated to JNTU Kakinada

Value Added Course
011
VAC07- PROGRAM USING ARDUINO
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.Meeravali M.Tech.
Associate Professor
9885308961

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.

EMENANT SPEAKER

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

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CONTENT

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

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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



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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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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

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

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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