Department of EEE
Summary Sheet of Add on Courses Conducted
ACADEMIC YEAR 2019-20

S. No	Name of the Event	Type of the Event	Course Code	Number of Hours	Number of Students Enrolled
1	FUNDAMENTALS OF MAT LAB	Value added course	2019-20/PEC/EEE/VAC03	32 Hrs	100
2	SOLAR PHOTOSYSTEM VOLTAIC DESIGN	Value added course	2019-20/PEC/EEE/VAC04	32 Hrs	65

Summary report of FUNDAMENTALS OF MAT LAB

PRAKASAM
ENGINEERING COLLEGE

Value added course			
Document ID:	**2019-20/PEC/EEE/VAC03**	**Document Name:**	Report

Course Summary Report

Value added-course in "Fundamentals of MAT Lab." were organized by the Department of Electrical and Electronics Engineering, Prakasam engineering college from 26-08-2019 To 30-08-2019. The total period of course is 32 hours. Totally, 100 students have enrolled of this course and participated during the course. The institutes Principal Dr.M.Lakshmana Rao 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:

- Increase automation by encapsulating modular tasks.
- Create flexible code that can interact with the user.
- Importing from spreadsheets and delimited text files.
- Use matrices as mathematical objects or as collections.

Co-ordinator **HOD** **Principal**

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

2001
O.V. Road, KANDUKUR - 523 105.
PRAKASAM (Dist.), AP, INDIA.
T : 08598 222288, 221200, F : 08598 221300
E : pec@prakasamec.com

Brochure of FUNDAMENTALS OF MAT LAB

CHIEFPATRON

Dr.K.Ramaiah

Secretary&correspondant

PrakasamEngineeringcollegeKandukur

PATRON

Dr.M.Lakshmana Rao M.Tech.,Ph.D.

Principal

PrakasamEngineeringcollegeKandukur

CONVENER

Mr.S.K.Meera Shareef

M.Tech.,(Ph.D.)

Head of Department

Department of Electrical and Electronics Engineering

Prakasam Engineering college::Kandukur

Co-Ordinator

Mr.J.Alla Bagash M.Tech.

Associate Professor

CHADALAVADA RAVI KUMAR Digitally signed by CHADALAVADA RAVI KUMAR Location: your signing location here Date: 2024.06.07 17:25:05

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

ValueAddedCourse

On

VAC3-Fundamentals of MAT LAB

26-08-2019 to 30-08-2019

Organized by

Department of EEE

venue:B2/F2/13/SEMINARHALL-1

Foranydetails,pleasecontact::

Coursein-charge

Mr.J.Alla Bagash, M.Tech.

Associate Professor

9948850039

COURSEOBJECTIVES

The aim of the course is increase automation by encapsulating modular tasks.

- Create flexible code that can interact with the user.
- Importing from spreadsheets and delimited text files.
- Use matrices as mathematical objects or as collections

COURSEOUTCOMES(COS)

Students in the course obtain the following outcomes.

- Increase automation by encapsulating modular tasks.
- Create flexible code that can interact with the user.
- Importing from spreadsheets and delimited text files.
- Use matrices as mathematical objects or as collections

CONTENT

- Introduction to MATLAB, Scripts, Variables and Basic operations
- Basic Plotting, Examples for Plotting
- Symbolic Math Toolbox-variables, expression and Statements
- Simulink-library Browser, Connections, Block Specification
- Problems on Simulink model
- Graphical User Interfaces (GUI)-Making, drawing, settings and adding Function to MATLAB files
- Examples of Simulink with POWERGUI

EMENANTSPEAKER

Mr.S.N.Meeravli, M.Tech

Assoc Professor.

Prakasam Engineering College

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

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

CHADALAVADA RAVI KUMAR Digitally signed by CHADALAVADA RAVI KUMAR Location: your signing location here Date: 2024.06.07 17:25:05

Summary report of SOLAR PHOTOSYSTEM VOLTAIC DESIGN

PRAKASAM
ENGINEERING COLLEGE

Value added course			
Document ID:	2019-20/PEC/EEE/VAC04	**Document Name:**	Summary Report

Course Summary Report

Value added-courses in "VAC04- SOLAR PHOTOVOLTAIC SYSTEM DESIGN" were organized organized by the Department of Electrical And Electronics Engineering at Prakasam engineering college from Feb 10 to Feb 14 in 2020. The total period of course is 32 hours. Totally, 65 students have enrolled of this course and participated during the course. The institutes Principal, Dr. M. Lakshman Rao 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:

- Students in the course obtain the following outcomes.
- Learners will be able to differentiate the various types of solar panels and its characteristics and working
- Understand the difference between standalone and grid connected system

Course photo:

Co-ordinator **HOD** **Principal**

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

Brochure of SOLAR PHOTOSYSTEM VOLTAIC DESIGN

CHIEF PATRON

Dr.K.Ramaiah

Secretary & correspondant

Prakasam Engineering college, Kandukur

PATRON

Dr.M.LAKSHMAN RAO 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. SK.AARIF M.Tech.

Assistant Professor

CHADALAVADA RAVI KUMAR Digitally signed by CHADALAVADA RAVI KUMAR Location: your signing location here Date: 2024.06.07 17:25:09 +04'00'

PRAKASAM ENGINEERING COLLEGE

Approved by AICTE ,New Delhi | Affiliated to JNTU-Kakinada

NAAC

Value Added Course

ON

VAC04- SOLAR PHOTOVOLTAIC SYSTEM DESIGN

10-02-2020 to 14-02-2020

Organized by

Department of ELECTRICAL AND ELECTRONICS ENGINEERING

Venue: SEMINAR HALL - 1

For any details, please contact

Course in-charge

Mr. SK.AARIF M.Tech.

Assistant Professor

7842009079

COURSE OBJECTIVES

- To develop a comprehensive technological understanding in solar PV system components ,To provide in-depth understanding of design parameters to help design and simulate the performance of a solar PV power plant, To obtain knowledge about planning, project implementation

COURSE OUTCOMES (COS)

- Learners will be able to differentiate the various types of solar panels and its characteristics and working
- Understand the difference between standalone and grid connected system
- Design solar PV systems for small scale power generation

EMENANT SPEAKER

Mr.P.YEDUKONDALU M.Tech

Assistant Professor

Prakasam Engineering College, Kandukur

CHADALAVADA RAVI KUMAR Digitally signed by CHADALAVADA RAVI KUMAR Location: your signing location here Date: 2024.06.07 17:25:09 +04'00'

CONTENT

- Introduction and Working Principle of Semiconductor Based Solar Cell Energy conversion
- photovoltaic -history of solar energy
- status and prospects of PV Technology-solar light
- conversion of light energy and electricity band gap-charge and carrier semiconductor junction
- Operation Performance and Design Rules for Solar Cell
- Solar cell operation
- solar cell performance- solar cell design rules properties of crystalline
- silicon(c-Si) manufacturing of c-Si- Design rule of the c-Si solar cell -
- High efficiency concept of c-Si -water based solar cells from solar cell to solar module
- Thin Film PV Technologies & the Third Generation PV, Thermal& Solar Fuels
- PV Technology Thin Film Silicon PV Technology film CIGS PV Technology Thin Film CdTe Technology
- Organic PV Technology - Third generation PV Technology-
- solar thermal technologies solar fuel technologies
- PV Systems Components and Concepts
- PV system overview -PV module in a PV system
- maximum power point tracking
- M concepts and algorithms- inverters in PV systems
- storage in PV systems- batteries
- design of PV system using PV system environmental consideration of PV systems