



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi And Affiliated to Anna University, Chennai.

T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



ACADEMIC YEAR 2021-2022



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

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CURRICULUM DESIGN AND DEVELOPMENT



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3. Summary of Design and Development of Curriculum for Add on/ certificate/ Diploma Courses

S.No	Year	Department	Faculty Participated	Add on Course Title
1	2021-22	AUTO	Mr.S.GANESH KUMAR	Design and Development Of Curriculum For ADVANCED AUTOMOTIVE TECHNOLOGY
2	2021-22	CIVIL	Mrs.P. REENA	Design and Development Of Curriculum For ETABS SOFTWARE
3	2021-22	CSE	Mrs. M.C.SAVITHRI	Design and Development Of Curriculum For FULL STACK WEB DEVELOPMENT
4	2021-22	EEE	Mr.A.VIGNESHKUMAR	Design and Development Of Curriculum For BATTERY ENERGY STORAGE SYSTEM
5	2021-22	ECE	Mrs.R.KOKILA	Design and Development Of Curriculum For RTL DESIGN AND VERIFICATION
6	2021-22	MECH	Mr.K.SRIRAM	Design and Development Of Curriculum For ADVANCED GAS DYNAMICS
7	2021-22	MCA	Mrs.A.KANIMOZHI	Design and Development Of Curriculum For PRACTICAL MACHINE LEARNING WITH TENSORFLOW
8	2021-22	MBA	Mr.G.ALAGAR	Design and Development Of Curriculum For DIGITAL MARKETING


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**JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (TK), ERODE (DT).**

REQUISITION LETTER

From,

Head of the Department,
Automobile Engineering,
J.K.K Munirajah College of Technology,
T.N.Palayam.

To,

The Principal,
J.K.K Munirajah college of Technology,
T.N.Palayam.

Permitted
Sreedh.

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program-Reg

We have planned to conduct a Certificate Program for II-, III- and IV-year AUTO students on "ADVANCED AUTOMOTIVE TECHNOLOGY "from 13.09.2021 TO 18.09.2021 by program coordinator Mr.S.GANESH KUMAR , AP/AUTO . So, I request you to kindly provide permission to conduct the Certificate Program.

Thanking You,

Place: T.N.Palayam

Date: 03.09.2021

Yours Truly

V.N.S.

Sreedh.

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JKKMCT/CIRCULAR/SEP-21

06.09.2021

CIRCULAR

The Department of Automobile Engineering is planning to organize a Certificate Program on “ADVANCED AUTOMOTIVE TECHNOLOGY” for the benefit of the students from 13.09.2021 (Monday) TO 18.09.2021 (Saturday). Students those who are willing to attend the course can enroll their names to their class in-charges respectively on or before 10.09.2021.


PRINCIPAL

Copy To

All the HODs and Staff Members,

All the students,

Notice Boards & File Copy


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Program Name : ADVANCED AUTOMOTIVE TECHNOLOGY

Program Code : 21AEAATCP01

Program Coordinator Name : Mr.S.GANESH KUMAR, M.E **Total Hours** : 36 hrs

CHAPTER I – ADVANCED AUTOMOTIVE ENGINEERING BASICS

- Identify and choose safe working practices, environment regulations and housekeeping.
- Select and make use of various precision measuring instruments, determine the dimension of components and record the data.
- Interpret specifications, different engineering drawing and apply for different application in the field of work.
- Organize and carry out various metal testing methods, determine the values and compare with the standards

CHAPTER II - AUTOMOTIVE ELECTRICAL AND ELECTRONIC SYSTEM –

DIAGNOSIS & REPAIR FOR HYBRID VEHICLES

- Plan and perform the trouble shooting, diagnosis of automotive electronics and communication system, determine and solve the problems and justify the results.
- Demonstrate troubleshoot and Diagnosis of vehicle safety system.
- Plan and organize the trouble shooting, diagnosis of automotive electrical accessories, determine and solve the problems and justify the results.



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CHAPTER III - AUTOMOTIVE ENGINE – DIAGNOSIS AND REPAIR FOR ADVANCED

MPFI

- Plan and organize the troubleshooting and diagnosis of intake and exhaust system.
- Plan and organize the troubleshooting and diagnosis of power plant (Engine: Construction, Petrol and Diesel).
- Plan and perform the trouble shooting, diagnosis of automotive electronics and
- communication system, determine and solve the problems and justify the results.
- Plan and organize the troubleshooting and diagnosis of cooling and lubricating system.

CHAPTER IV- DIAGNOSIS AND REPAIR FOR ADVANCED HIGH SPEED AUTOMATIC

TRANSMISSION

- Plan and organize to find the faults and Diagnosis of manual Transmission system and suggest appropriate measure for manual transmission, transaxle, differential and final drive.
- Examine/interpret the faults in Diagnosis of automatic Transmission system and suggest appropriate measure for automatic Gear boxes.



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CHAPTER V- ADVANCED AUTOMOTIVE AIR CONDITIONING AND CLIMATE

CONTROL SYSTEM

Plan and organize to carry out maintenance and overhauling of different types of transmission in two and three wheelers, determine its functionality and its performance.

- Plan and organize to find the faults and Diagnosis of air conditioning and climate control system and suggest appropriate measure for brake, suspension and steering system.
- Plan and organize to find the faults and Diagnosis of climate system and suggest appropriate measure for its functionality.

Prepared By :

Name : S.GANESH KUMAR, M.E

Designation : AP/AUTO

PROGRAM COORDINATOR

HOD

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DEPARTMENT OF AUTOMOBILE ENGINEERING

Schedule Period : 13.09.2021 TO 18.09.2021

Dates/ Duration	09:30 AM to 11:30 AM (02.00 hr)	BREAK	11.45 AM to 1.15 PM (01.30 hr)	LUNCH	2:00 PM to 4.20 PM (02.30hr)
13.09.2021	Identify and choose safe working practices, environment regulations and housekeeping.		Sections used for structural steel, Analysis & design philosophies		Interpret specifications, different engineering drawing and apply for different application in the field of work.
14.09.2021	Organize and carry out various metal testing methods, determine the values and compare with the standards.		Identify and explain the hydraulic and pneumatic components in the workshop and vehicles.		Organize and measure various engine parameters (torque, BHP, BMEP, IHP etc.)
15.09.2021	Organize and carry out joining of metals using different methods and test for defects.		Check and interpret vehicle specification data and VIN and prepare a job card.		Plan and perform various basic tests related with auto electrical and electronics and interpret the values
16.09.2021	Obtained by comparing with the standards.		Plan and perform the trouble shooting, diagnosis of automotive electrical system, determine and solve the problems and justify the results		Plan and perform the trouble shooting, diagnosis of automotive electronics and communication system
17.09.2021	Demonstrate troubleshoot and Diagnosis of vehicle safety system.		Plan and organize the trouble shooting, diagnosis of automotive electrical accessories		Plan and organize the troubleshooting and diagnosis of intake and exhaust system.
18.09.2021	Plan and organize the troubleshooting and diagnosis of power plant (Engine: Construction, Petrol, Diesel)		Plan and perform the trouble shooting, diagnosis of automotive emission control system		Examine/interpret the faults in Diagnosis of vehicle control system

S. Gae
PROGRAM COORDINATOR

V. V. V.
HOD

Sreedh.
PRINCIPAL

Sreedh.
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Requisition Letter

From,

Head of the Department,
Civil Engineering,
J.K.K Munirajah College of Technology,
T.N.Palayam.

To,

The Principal,
J.K.K Munirajah college of Technology,
T.N.Palayam.

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program-Reg

We have planned to conduct a certificate Program for II-, III- and IV-year CIVIL students on "ETABS SOFTWARE "from 01.09.2021 TO 07.09.2021 by program coordinator Mrs.P. REENA AP/CIVIL . So, I request you to kindly provide permission to conduct the certificate Program.

Thanking You,


Place: T.N.Palayam

Date: 26.08.2021

Yours Truly,



Permission Granted
Shreevall
26/8/21


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JKKMCT/CIRCULAR/AUGUST/2021

27.08.2021

CIRCULAR

The Department of Civil Engineering is planning to organize a Certificate Program on “ETABS SOFTWARE” (36 Hours) for the benefit of the students from “01.09.2021(WEDNESDAY) TO 07.09.2021(TUESDAY)” Students those who are willing to attend the Program can enroll their names to their class in-charges respectively on or before 30.08.2021.


27/8/21
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All the HODs and Staff Members,

The Student's circulation,

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Program Name : ETABS SOFTWARE

Program Code : 22CEETSCP01

Program Coordinator Name : Mrs.P.REENA M.E

Total Hours : 36 hrs

CHAPTER I - INTRODUCTION TO STEEL MEMBERS

- Introduction to Steel members & buildings
- Sections used for structural steel, Analysis & design philosophies
- Lateral load resisting systems & different material specifications used in Steel buildings
- Analysis and design methods & software's used

CHAPTER II - LOADS

- Load layouts & temperature loads
- Force co-efficient method & calculation for building
- Layout planning & Introduction to vertical load resisting systems

CHAPTER III - DESIGN OF A STRUCTURE USING SOFTWARE

- Load flow, planning & preliminary sizing of lateral load resisting systems
- Columns, preliminary sizing of columns & Service co-ordination in buildings
- Inputs for analysis & design of a structure using software

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CHAPTER IV - DESIGN ACTIONS ON CONNECTIONS

- Design of built-up beams, Torsion in beams and service integration
- Terrace floor planning & design approach, Architecturally exposed steel, Introduction to connections
- Shear, moment & splice connections, design actions on connections

CHAPTER V- STRUCTURAL MODELING ANALYSIS

- Introduction to Industrial buildings, structural framing & roofing and cladding
Materials...
- Structural modeling analysis & design of elements and connections of an industrial building
- Transportation of structural steel, Study of erection drawings, planning & erection of structures

Prepared By :

Name : P. REENA

Designation : AP/ Civi

PROGRAM CO-ORDINATOR

HOD

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Schedule Period : 01.09.2021 TO 07.09.2021

Dates/ Duration	09:30 AM to 11:30 AM (02.00 hr)		11.45 AM to 1.15 PM (01.30 hr)		2:00 PM to 4.20 PM (02.30hr)
01.09.2021	Introduction to Steel members & buildings	BREAK	Sections used for structural steel, Analysis & design philosophies	LUNCH	Lateral load resisting systems & different material specifications used in Steel buildings
02.09.2021	Load layouts & temperature loads		Force co-efficient method & calculation for building		Layout planning & Introduction to vertical load resisting systems
03.09.2021	Load flow, planning & preliminary sizing of lateral load resisting systems		Columns, preliminary sizing of columns & Service co-ordination in buildings		Inputs for analysis & design of a structure using software
04.09.2021	Design of built-up beams, Torsion in beams and service integration		Terrace floor planning & design approach, Architecturally exposed steel, Introduction to connections		Shear, moment & splice connections, design actions on connections
06.09.2021	Introduction to Industrial buildings, structural framing & roofing and cladding Materials.		Structural modeling analysis & design of elements and connections of an industrial building		Transportation of structural steel, Study of erection drawings, planning & erection of structures
07.09.2021	PROJECT		Inspection of structural elements, design & detailing practices, design summary of the building		PROJECT DISCUSSION

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REQUISITION LETTER

From,

Head of the Department,
Computer Science and Engineering,
JKK Munirajah College of Technology,
T.N.Palayam.

To,

The Principal,
JKK Munirajah College of Technology,
T.N.Palayam.

Permitted
Sreedh
24/8/21

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program- Reg

We have planned to conduct a certificate program for II, III and IV year Computer Science students on “FULL STACK WEB DEVELOPMENT” from 31.08.2021 to 07.09.2021 by Program Coordinator M.C.SAVITHRI M.E., So, I request you to kindly provide a permission to conduct the certificate program.

Thanking You,

Yours Truly,

Sreedh
24/8/21

Place: T.N.Palayam

Date:24.08.2021

Sreedh
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JKKMCT/CIRCULAR/AUG-21

19/08/2021

CIRCULAR

The Department of Computer Science and Engineering is planning to organize a Certificate Program on “FULL STACK WEB DEVELOPMENT” (36 Hours) for the benefit of the students from 31.08.2021 (Monday) to 07.09.2021 (Tuesday). Students those who are willing to attend the Program can enroll their names to their class in-charges respectively on or before 24.08.2021


PRINCIPAL 19/8/21


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
PROGRAM SYLLABUS

Name of the Certificate Program : FULL STACK WEB DEVELOPMENT

Program Code : 21CSEFSWD01

Name of the Program Coordinator : M.C.SAVITHRI

Academic Year: 2021-2022

Program Contents

Total Hours: 36

Chapter 1: Introduction to Full Stack Web Development (HTML, CSS)

- Web development basics-html
- Advanced html concepts
- Introduction to cascading style sheet(CSS)
- Advanced css
- Java script concepts
- Java query concepts
- Bootstrap basics
- Google chrome extension project

Chapter 2: Full Stack Web Development -Basic and Advanced HTML

- HTML Document Structure
- HTML elements - div and span
- HTML elements - i, b, p, and a
- HTML elements - ul, li, and ol
- HTML elements - header and footer
- HTML elements - section, main, and article
- HTML elements - h1-h6 and aside

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- HTML tables
- Advanced HTML Images
- Advanced HTML Forms
- Advanced HTML Inputs
- Advanced HTML Checkboxes
- Advanced HTML Radio buttons
- Advanced HTML Select, option, and buttons
- Advanced HTML HTML5 videos
- Advanced HTML HTML5 audio
- Advanced HTML Doctypes
- Advanced HTML Meta tags

Chapter 3: CASE CADDING STYLE SHEET (CSS)

- Targeting color and background
- Element specificity
- ID targeting, margin, and border
- Padding, margin, and float
- Max-width and background-image
- Switching over to an IDE
- Font weight, style, and family
- Text decorations
- Text spacing
- Text decoration modification
- Text shadow

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Chapter 4: JAVA SCRIPT CONCEPTS

- Introduction to JavaScript
- Alerts and console logging
- Integers, strings, and variables
- Undefined variables and modifying values of variables
- Boolean operators
- Comparing values
- If statements
- For loops
- Defining functions
- Event handling
- Setting an elements inner HTML

Chapter 5: Java query concepts

- jQuery setup
- Targeting elements
- Event handling
- Dropdown menus
- Making our dropdown disappear
- Multiple targets, events, and attr method
- Prepend, append, and html
- preventDefault
- event.which and switch properties
- Custom context menu, page Y, and page X

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Chapter 6 : Bootstrap Basics

- Bootstrap setup
- Navbar pt.1
- Navbar pt.2
- Forms pt.1
- Forms pt.2
- Buttons

Chapter 7 : Google chrome extension project

- Problem solving
- Manifest files
- Basic setup
- Getting video URLs
- Injecting JavaScript
- Getting pretty objects for each URL
- Creating download options list
- Communicating between the page and extension
- Chrome downloads API and background scripts
- Receiving messages and downloading files
- Styling our extension and publishing

Prepared by:

Name: M. C. SAVITHRI

Designation: AP / CSE


PROGRAM COORDINATOR


HOD


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAM SCHEDULE

Name of the Certificate Program : FULL STACK WEB DEVELOPMENT

Program Code : 21CSEFSWD01

Name of the Program Coordinator : M.C.SAVITHRI

Program Period: 31.08.2021 to 07.09.2021

Date/ Time	9:30AM to 11:30AM (2 Hours)		11.45 AM to 12.45PM (1 Hour)		1:30 PM to 4.30 PM (3 Hours)
31-08-2021	Inauguration Introduction to full stack web development, Web development basics html.		HTML Document Structure, HTML elements - div and span- i, b, p, and a ,ul, li, and ol , header and footer section		HTML elements - h1-h6 and aside HTML tables , Images HTML Forms, Inputs, Checkboxes, Radio buttons, Select option, and buttons
01-09-2021	HTML5 videos, audio. Doctypes, Meta tags, Targeting color and background,		Element specificity, ID targeting, margin, and border, Padding, margin.		float, ax-width and background-image, Switching over to an IDE Font weight, style, and family.
02-09-2021	Text decorations, Spacing, decoration, modification shadow	BREAK	Introduction to JavaScript, Alerts and console logging. Integers, strings, and variables,	LUNCH	Defined variables and modifying values of variables, Boolean operators, Comparing values.
03-09-2021	If statements For loops, Defining functions, Event handling		Setting an elements inner HTML, jQuery setup Targeting elements		Event handling, Dropdown, Menus, Making our dropdown disappear
06-09-2021	Multiple targets, events, and append, html, prevent, Default event. switch properties Custom context menu		pageY, and pageX, is method, Bootstrap, setup, Navbar pt. 1, Navbar pt. 2, Forms pt. 1, Forms pt. 2		Problem solving Manifest files, Basic setup, Getting video URLs, Injecting JavaScript, Getting pretty objects for each URL.
07-09-2021	Creating download options list Communicating between the page and extension, Chrome downloads.		API and background scripts, Receiving messages and downloading files Styling our extension and publishing		Feedback and Discussion

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PROGRAM COORDINATOR


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Requisition Letter

From,
Head of the Department,
Department of Electrical and Electronics Engineering,
JKK Munirajah college of Technology,
T.N. Palayam.

To,
The Principal,
JKK Munirajah college of Technology,
T.N. Palayam.

Respected Sir,


Sub: Seeking permission for conducting a Certificate Programme-Reg

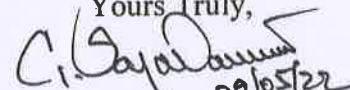
We have planned to conduct a certificate Programme for II-, III- and IV-year Electrical and Electronics students on "Battery Energy Storage System" from 16.05.2022 to 21.05.2022 by Programme coordinator Mr. A. Vigneshkumar, So, I request you to kindly provide permission to conduct the certificate Programme.

Thanking You,

Place: T.N.Palayam

Date: 09.05.2022


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Yours Truly,

09/05/22



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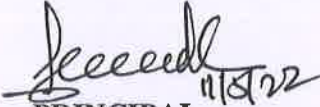


JKKMCT/CIRCULAR/MAY-22

DATE: 11/05/2022

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to organize a Certificate Programme on "BATTERY ENERGY STORAGE SYSTEM" (36 Hours) for the benefit of the students from 16/05/2022 (Monday) to 21/05/2022 (Saturday). Students those who are willing to attend the course can enroll their names to their class in-charge respectively on or before 13/05/2022.


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**All the HODs and Staff Members,
The Student's circulation,
Notice Boards and File**


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAMME SYLLABUS

Programme Name: BATTERY ENERGY STORAGE SYSTEM

Programme Code: 22EEEBEESCC01

Programme Coordinator Name: Mr. A. Vignesh kumar, M.E.,

Total Hours: 36 Hrs

CHAPTER 1:

Electrical System Analysis

- Engineering Planning of storage system
- Identification type of load pattern (Continuous, intermitted or backup)
- Identifications of existing electrical network and system information's
- Study of load pattern and load type to be served by BESS
- Calculation of on grid / off grid load.
- Calculation existing demand and future requirement
- System study for BESS.
- Electrical load and energy consumption calculation

CHAPTER 2:

Scheme of Battery Energy Storage System

- Solar-plus-storage system architectures
- Advantage and disadvantage of AC Coupling
- Advantage and disadvantage of DCC Coupling
- Selection of AC coupling equipment's
- Selection of DC coupling equipment's
- Comparison between AC coupling and DC coupling



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CHAPTER 3:

Battery Sizing and Selection

- Type of battery and its selection (Li-ion, Ni-cd , lead acid etc.)
- Selection of battery cell and types
- Standardized sizes and shapes pertaining to both primary and secondary batteries
- Selection of Key technical terms: end of life ,Depth of discharge (DOD),State of charge (SoC),Cycling rate (C-rate)
- Study Battery critical parameters selection (voltage of cell , Specific energy, Charge (C-rate), discharge (C-rate),Cycle life, current density , Thermal runaway and Applications
- Battery series parallel connection and String size.
- Battery mounting arrangement and installation methodology.
- Battery backup hours

CHAPTER 4:

Selection & Sizing of PCU and grid ties solar inverter

- Selection & sizing of PCU and grid tied solar inverter
- Working principle of bi-directional PCU
- Selection & sizing AC rating of PCU.
- Selection & sizing AC rating of grid tied solar inverter.
- Selection critical parameter of inverter and PCU: input AC, AC output DC Input, DC output, Battery charger parameters, efficiency, protection, communication, Auxiliary power requirement
- Energy Management System.
- Batteries and battery management systems:

CHAPTER 5:

Selection & sizing of Balance of system for BESS

- Selection sizing of inverter duty transformer



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- Sizing of BESS container & ventilation arrangement
- Selection of ACDB , DCDB and switchgear selection
- Selection of DC cable between DC DB to PCU
- Selection AC Cable between ACDB to transformer
- Cable section for PCU and Inverter
- Type of Earthing and calculation
- Section of string inverter or central inverter
- Protection scheme of HT side

CHAPTER 6:

Engineering drawings and Layouts


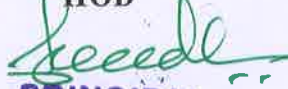
- Preparation of BESS single line diagram
- Preparation of AC single line diagram
- Preparation of DC single line diagram
- Preparation of BESS container layout & location
- Preparation of earthing layout
- Preparation of cable layouts

Prepared by:

Name: Mr. A. Vigneshkumar

Designation: AP/ EEE


PROGRAMME COORDINATOR


HOD

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SCHEDULE PROGRAMME: TRAINING ON BATTERY ENERGY STORAGE SYSTEM

SCHEDULE PERIOD: 16.05.2022 TO 21.05.2022

Dates/ Duration	09:30 AM to 11:30 AM (02.00 hr)		11.45 AM to 1.15 PM (01.30 hr)		2:00 PM to 4.20 PM (02.30hr)
16.05.2022	Registration and Inauguration		Introduction about Battery Energy Storage System		Electrical System Analysis *Engineering Planning of storage system *Identification type of load pattern (Continuous, intermitted or backup)
17.05.2022	*Study of load pattern and load type to be served by BESS, *Calculation of on grid / off grid load. *Calculation existing demand and future requirement	BREAK	Scheme of Battery Energy Storage System *Solar-plus-storage system architectures *Advantage and disadvantage of AC Coupling	LUNCH	*Advantage and disadvantage of DCC Coupling *Selection of AC coupling equipment's
18.05.2022	Battery Sizing and Selection *Type of battery and its selection (Li-ion, Ni-cd , lead acid etc.) *Selection of battery cell and types *Standardized sizes and shapes pertaining		*Battery series parallel connection and String size. *Battery mounting arrangement and installation methodology.		Selection & sizing of PCU and grid ties solar inverter *Selection & sizing of PCU and grid tied solar inverter *Working principle of bi-directional PCU Selection & sizing AC rating of grid tied solar inverter.



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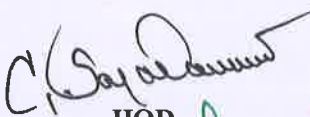

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	to both primary and secondary batteries			
19.05.2022	<ul style="list-style-type: none">*Energy Management System.*Batteries and battery management systems:		<ul style="list-style-type: none">Selection & sizing of Balance of system for BESS*Selection sizing of inverter duty transformer*Sizing of BESS container & ventilation arrangement	<ul style="list-style-type: none">*Selection of ACDB , DCDB and switchgear selection*Selection of DC cable between DC DB to PCU
20.05.2022	<ul style="list-style-type: none">*Selection AC Cable between ACDB to transformer*Cable section for PCU and Inverter		<ul style="list-style-type: none">*Type of Earthing and calculation*Section of string inverter or central inverter	<ul style="list-style-type: none">*Protection scheme of HT side
21.05.2022	<ul style="list-style-type: none">Engineering drawings and Layouts*Preparation of BESS single line diagram*Preparation of AC single line diagram		<ul style="list-style-type: none">*Preparation of DC single line diagram*Preparation of BESS container layout & location	<ul style="list-style-type: none">*Preparation of earthing layout*Preparation of cable layouts


PROGRAMME COORDINATOR


HOD

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Requisition Letter

From,

Head of the Department,
Department of Electronics and Communication Engineering,
J.K.K.Munirajah College of Technology,
T.N.Palayam.

To,

The Principal,
J.K.K.Munirajah College of Technology,
T.N.Palayam.

Permitted
Seced 12/8/21

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program-Reg

We have planned to conduct a certificate program for II-, III- and IV-year ECE students on "RTL Design and Verification" from 23.08.2021 to 28.08.2021 by program coordinator Mrs.R.Kokila AP/ECE. So, I request you to kindly provide permission to conduct the certificate program.

Thanking You,

Yours Truly,

Place: T.N.Palayam

Date: 12.08.2021

Seced 12/8/21

Seced

PRINCIPAL
JKK MUNIRAJAH COLLEGE
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JKKMCT/CIRCULAR/47/AUG-2021

DATE: 13/08/2021

CIRCULAR

The Department of Electronics and Communication Engineering is planning to organize a Certificate Program on “RTL Design and Verification” (36 Hours) for the benefit of the students from 23.08.2021 (Monday) to 28.08.2021 (Saturday). Students those who are willing to attend the program can enroll their names to their class in-charges respectively on or before 16.08.2021.


PRINCIPAL 13/8/21

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The Student's circulation,
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Department of Electronics and Communication Engineering

PROGRAM SYLLABUS

Name of the Certificate Program : RTL Design and Verification

Program Code : 21ECERTLDVCP01

Name of the Program Coordinator : Mrs.R.Kokila

Academic Year: 2021-2022

Program Contents

Total Hours: 36

Chapter 1 : Digital logic Fundamentals and Advanced Digital Design

- Importance and advantages of digital electronics
- Digital Number System, Binary logic gates & Boolean algebra
- Combinational and Sequential circuit designs
- Evolution of the Sequential Elements-Latches and Flip Flops
- Design of Synchronous Sequential Machines-Synchronous Detectors, Counters and Registers
- Design of Hybrid Counters
- Design of complex Sequence detectors
- Design of Control FSMs based on the specifications
- Design of Frequency synthesizers

Chapter 2 : CMOS Basics and ASIC/FPGA/SOC Design Flow

- Acquire the knowledge about various CMOS fabrication process.
- NMOS and PMOS operation.
- CMOS characteristics.
- CMOS inverter rise, fall and propagation delays.
- CMOS second order effects.
- Analyse and implement various functions using CMOS circuits.
- CMOS Flip flop and its timing parameters
- Overview of FPGA/ASIC/SOC design flow
- FPGA Vs ASIC comparison

Chapter 3 : RTL Design using System Verilog HDL

- Understanding RTL Design.
- Understanding basics of CDC and DFT.
- System Verilog data types.



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- System Verilog procedural blocks and statements
- Usage of System Verilog Interface in RTL design
- Parameterized Interfaces and Modports
- Usage of Generate and Genvar in RTL design for multi-master and multi-slave configuration
- Design of synchronous machines using System Verilog

Chapter 4 : RTL Synthesis and Logic Equivalence Checks (LEC)

- Introduction to Synthesis
- Data Setup for DC
- Accessing Design and Library Objects
- Constraints: Reg-to-Reg and I/O Timing
- Constraints: Input Transition and Output Loading
- Constraints: Multiple Clocks and Exceptions
- Constraints: Complex Design Considerations
- Post-Synthesis Output Data
- Basic concepts of Formal verification and LEC
- Input generation for LEC

Chapter 5 : RTL Verification using VERILOG HDL

- Understanding Verification types
- Verification flow
- Test bench architecture
- Developing Test bench components
- Simulation and Synthesis mis-matches,
- Test bench models
- Understanding X-propagation,
- Timing Verification-Gate level simulation
- Hands on project


Prepared by:

Name: Mrs.R.Kokila

Designation: AP/ ECE


PROGRAM COORDINATOR


HOD


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Department of Electronics and Communication Engineering

Academic Year 2021-2022

Certificate Program on "RTL Design and Verification"

Schedule Plan

Dates	09:30 AM to 11:30 AM (2 Hrs)		11.45 AM to 1.15 PM (1.30 Hrs)		2:00 PM to 4.30 PM (2.30 Hrs)
23.08.2021	Introduction and Digital logic Fundamentals	BREAK	Design of Synchronous Sequential Machines- Synchronous Detectors, Counters and Registers	LUNCH	Design of complex Sequence detectors and Frequency synthesizers
24.08.2021	CMOS Basics		Analyse and implement various functions using CMOS circuits		ASIC/FPGA/SOC Design Flow
25.08.2021	RTL Design using System Verilog HDL		Usage of System Verilog Interface in RTL design		Usage of Generate and Genvar in RTL design for multi-master and multi-slave configuration
26.08.2021	Design of synchronous machines using System Verilog		Design of memory block using System Verilog		RTL Synthesis
27.08.2021	Constraints: Reg-to-Reg and I/O Timing, , Multiple Clocks and Exceptions, Complex Design Considerations		Logic Equivalence Checks		RTL Verification using VERILOG HDL
28.08.2021	Test bench architecture, Developing Test bench components, Test bench models.		Hands on project		Hands on project Questions and feedback

PROGRAM COORDINATOR

HOD

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GObI (Tk), ERoDE (Dt).

REQUISITION LETTER

From,

Head of the Department,
Mechanical Engineering,
J.K.K Munirajah College of Technology,
T.N.Palayam.

To,

The Principal,
J.K.K Munirajah college of Technology,
T.N.Palayam.

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program-reg

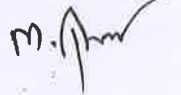
We have planned to conduct a certificate Program for I and II year ME-Manufacturing and II, III and IV year BE-Mechanical students on "ADVANCED GAS DYNAMICS" from 20.09.2021 to 25.09.2021 by program coordinator Mr.K.SRIRAM.,M.E, AP/MECH. So, I request you to kindly provide permission to conduct the certificate Program.

Thanking You,

Place: T.N.Palayam

Date: 10.09.2021

Yours Truly,



Permitted
Sreedh 10/9/21



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JKKMCT/CIRCULAR/063/SEP-21

14.09.2021

CIRCULAR

The Department of Mechanical Engineering is planning to organize a Value Added Course on “Advanced Gas Dynamics” for the benefit of the students from 20.09.2021 (Monday) to 25.09.2021(Saturday). Students those who are willing to attend the course can enroll their names to their class in-charges respectively on or before 18.09.2021.


PRINCIPAL

Copy To

All the HODs and Staff Members,

All the students,


PRINCIPAL

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GOBI (Tk), ERODE (Dt).**



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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



Program Name : ADVANCED GAS DYNAMICS

Program Code :21MEAGDCP01

Program Coordinator Name: Mr.K.SRIRAM.,M.E,

Total Hours: 36 hrs

PROGRAM SYLLABUS

CHAPTER 1: GOVERNING EQUATION FOR A HEAT CONDUCTION VISCOUS COMPRESSIBLE FLUID

- Mathematical preliminaries
- Reynolds transport theorem, various divergence theorems
- Conservation equations in integral form
- Mass, momentum, energy, specie (conserve scalars)
- Conservation equations in differential form
- Jump conditions and discontinuity analysis
- Simple constitutive theory for an ideal gas with heat conduction and viscosity
- Equations of a compressible heat conduction, viscous fluids

CHAPTER 2: DIMENSIONAL ANALYSIS

- Effects of compressibility
- Regimes of the Mach number
- Nearly incompressible
- Compressible flow
- Transonic flow
- Hypersonic flow



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CHAPTER 3: EQUATIONS OF GAS DYNAMICS FOR BOTH GENERAL AND IDEAL EQUATION OF STATE

- Basic thermodynamic review and needed results
- Primitive form
- Conservative form
- Acoustic limit and the sound speed

CHAPTER 4: GENERAL THEOREMS OF GAS DYNAMICS

- Irrotational flow
- Homotropic flow
- Isentropic flow
- Circulation theorem
- Crocco's theorem

CHAPTER 5: PROPERTIES OF HIGH-TEMPERATURE GASES

- Microscopic description of the gas
- Boltzmann Distribution
- Evaluation of the Thermodynamic Properties
- Equilibrium Constant
- Chemical Equilibrium

Prepared by:

Name : Mr.K.SRIRAM.,M.E,

Designation : AP/MECH

PROGRAM COORDINATOR

HOD

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PROGRAM SCHEDULE

Title of the Course : Advanced Gad Dynamics

Period : 20.09.2021 to 25.09.2021

Date	09:30 AM to 11:30 AM (2 Hrs)		11.45 AM to 1.45 PM (2 Hrs)		2:30 PM to 4.30 PM (2 Hrs)
20.9.2021	Mathematical preliminaries	BREAK	Reynolds transport theorem, various divergence theorems	LUNCH	Conservation equations in integral form Mass
21.9.2021	Conservation equations in differential form;		Jump conditions and discontinuity analysis,		Equations of a compressible heat conduction, viscous fluid
22.9.2021	Effects of compressibility, Regimes of the Mach number		Nearly incompressible Compressible flow		Transonic flow Hypersonic flow
23.9.2021	Basic thermodynamic review and needed results		Primitive form Conservative form		Acoustic limit and the sound speed
24.9.2021	Irrotational flow Homotropic flow		Isentropic flow		Circulation theorem Crocco's theorem
25.9.2021	Microscopic description of the gas Boltzmann Distribution		Evaluation of the Thermodynamic Properties		Equilibrium Constant Chemical Equilibrium

PROGRAM COORDINATOR

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GOBI (Tk), ERODE (Dt).

REQUISITION LETTER

From,
Head of the Department,
Master of Computer Applications,
JKK Munirajah College of Technology,
T.N.Palayam.

To,
ThePrincipal,
JKK Munirajah College of Technology,
T.N.Palayam.

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program- Reg

We have planned to conduct a certificate program for I, II year Master of Computer Applications students on "Practical Machine Learning with Tensorflow" from 03.01.2022 to 07.01.2022 by Program Coordinator Mrs.A.KANIMOZHI AP/MCA. So, I request you to kindly provide permission to conduct the certificate program.

Thanking You,




Yours Truly,

Place: T.N.Palayam

Date:21.12.2021

Permitted
Sreedh 21/12/21


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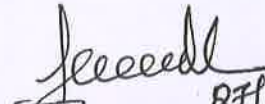


JKKMCT/CIRCULAR/DEC-2021

27/12/2021

CIRCULAR

The Department of Computer Applications is planning to organize a Certificate Program on “Practical Machine Learning with Tensorflow” (30 Hours) for the benefit of the students from 03.01.2022 (Monday) to 07.01.2022 (Friday). Students those who are willing to attend the Program can enroll their names to their class in-charges respectively on or before 31.12.2021.


27/12/21
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All the HODs and Staff Members,
All the Students,
Notice Board, File


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DEPARTMENT OF COMPUTER APPLICATIONS

PROGRAM SYLLABUS

Name of the Certificate Program : Practical Machine Learning with Tensorflow

Program Code : 21MCAPMLT01

Name of the Program Coordinator : Mrs.A.KANIMOZHI AP/MCA

Academic Year:2021-2022

Program Contents

Total Hours: 30

Chapter 1: Getting started with Tensorflow

- Introduction to Tensorflow
- Linear Regression in Tensorflow

Chapter 2: Overview of Machine Learning

- Process and Techniques
- Demonstration of ML concepts with Deep Playground

Chapter 3: Data Input and Preprocessing with Tensorflow and Machine Learning Model Building

- The Feature Engineering Component of TensorFlow Extended (TFX)
- Basics of Machine Learning with Tensorflow

Chapter 4: Prediction with Tensorflow

- Monitoring models using Tensorboard
- Evaluating models using Tensorboard



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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506



Chapter 5: Advance Tensorflow and Distributed training with hardware accelerators

- Building custom models - CNNs
- Scaling up for large datasets

Prepared by:


Name: Mrs.A.Kanimozhi

Designation: AP/MCA


PROGRAM COORDINATOR


HOD


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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

PROGRAM SCHEDULE

Name of the Certificate Program : Practical Machine Learning with Tensorflow

Program Code : 21MCAPMLT01

Name of the Program Coordinator : Mrs.A.Kanimozhi AP/MCA

Program Period: 03.01.2022 to 07.01.2022

Date/ Time	9:30AM to 11:30AM (2 Hours)		11.45 AM to 12.45PM (1 Hour)		1:30 PM to 4.30 PM (3 Hours)
03-01-2022	Registration and Inauguration	BREAK	Introduction to Tensorflow	LUNCH	Getting Started with Tensorflow
04-01-2022	Overview of Machine Learning		Process and Techniques		Demonstration of ML concepts with Deep Playground
05-01-2022	Data Input in Tensor flow		Preprocessing with Tensorflow		Machine Learning Model Building
06-01-2022	Prediction with Tensorflow		Monitoring models using Tensorboard		Evaluating models using Tensorboard
07-01-2022	Advance Tensorflow		Building custom models - CNNs		Distributed training with hardware accelerators


PROGRAM COORDINATOR


HOD


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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

REQUISITION LETTER

From,
Head of the Department,
Department of management studies
JKK Munirajah College of Technology,
T.N.Palayam.

To,
The Principal,
JKK Munirajah College of Technology
T.N.Palayam.

Respected Sir,

Sub: Seeking permission for conducting a Certificate Program- Reg

We have planned to conduct a certificate program for I, II year MBA students on DIGITAL MARKETING from 22:11:2021 to 27:11:2021 by the program coordinator Mr.G.Alagar, MBA So, I request you to kindly provide permission to conduct the certificate program.

Thanking you

Yours obediently

Place: T.N.Palayam

Date: 03:11:2021

Permitted
Accepted 03/11/21

PRINCIPAL
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JKKMCT/CIRCULAR/NOV -2021


09/11/2021

CIRCULAR

The department of management studies is planning to conduct a certificate program on digital marketing (36 hours) for the welfare of students from 22:11:2021 Monday to 27:11:2021 Saturday students those who are willing to join the program can enroll their names to respective class in-charges on or before 15:11:2021


PRINCIPAL 9/11/21

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All the HODs and Staff Members,
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DEPARTMENT OF MANAGEMENT STUDIES

PROGRAM SYLLABUS

Name of the Certificate Program: DIGITAL MARKETING

Program Code : 21MBADM001

Name of the Program Coordinator: Mr.G.Alagar, MBA

Academic Year: 2021-2022

Program Contents

Total Hours: 36

Chapter 1: About digital marketing

1. Introduction to digital marketing
2. Roles of digital marketing
3. Digital marketing curriculum

Chapter 2: digital marketing professionals

1. Marketing analytics
2. Marketing principles
3. Understanding business demand

Chapter 3: Marketing principles

1. Understanding Consumer Behavior
2. Influences on Consumer Behavior
3. Product Mix Decision
4. Branding Decisions

Chapter 4: Marketing Analytics

1. Statistics for Data Science
2. Introduction to Supervised and Unsupervised Learning
3. Data Science in Marketing

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Chapter 5: Brand Marketing and PR Communications

1. Brand Positioning
2. Engagement Strategy
3. PR Activities

Prepared by:

Name: Mr.G.Alagar, MBA

Designation: AP/MBA




PROGRAM CO-ORDINATOR



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DEPARTMENT OF MANAGEMENT STUDIES

PROGRAM SCHEDULE

Name of the Certificate Program: DIGITAL MARKETING

Program Code : 21MBADM001

Name of the Program Coordinator: Mr.G.Alagar, MBA

Program period: 22:11:2021 to 27:11:2021

Academic Year: 2021-2022

Date/ Time	9:30AM to 11:30AM (2 Hours)		11.45 AM to 12.45PM (1 Hour)		1:30 PM to 4.30 PM (3 Hours)
22:11:2021	Inauguration and Registration	BREAK	Introduction to digital marketing	LUNCH	Basic concepts of marketing and digital marketing
23:11:2021	Roles of digital marketing		Digital marketing curriculum		Marketing analytics
24:11:2021	Marketing principles		Understanding business demand		Understanding Consumer Behavior
25:11:2021	Influences on Consumer Behavior		Product Mix Decision		Introduction to Supervised and Unsupervised Learning
26:11:2021	Branding Decisions		Statistics for Data Science		Data Science in Marketing
27:11:2021	Brand Positioning		Practice Session		Feedback and Discussion


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