ADDON COURSES (2021-22) – Program Report

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 24.12.2021

PROGRAM REPORT

Name of the Add on Course: Arduino and interfacing to different electrical devices

Day/Duration: 16.12.2021 to 23.12.2021 (7 Days) - 42Hrs

Time: 09:30AM to 04:30 PM

Resource Person: Dr. PUDI SEKHAR Professor Dept. of EEE, VIIT.

Name of the Coordinator: Mr. K.V Sri Ram Prasad, Assistant Professor, Dept of EEE, VIEW

Number of Participants: 52

Course Objectives:

1. To understand the recent application domains of Arduino in everyday life
2. To design and build an actual Arduino.

Topics Covered: The following topics covered in this program

1. Introduction to Arduino, Hardware Overview, Arduino IDE and Sketch Overview, Understanding Arduino Syntax Coding,
2. Various Basic Industrial Sensors-IR- Analog Sensor, Light Sensor, Basic working Technique of Sensor
3. Blink an LED Without using the delay () Function, Challenge Discussion,
4. Analog I/O and Serial Communications, Strings and Text Files
5. Fundamentals of Computational Device, Transistor, Logic Gates
6. Basic LED interfacing and coding, LED, RGB interfacing and coding
7. Running LEDs, Sand Glass Filling of LEDs, Sensor Interfacing, Seven Segment Display.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to understand Arduino Programming.	PO3, PO5	3
CO2	Able to apply various coding techniques of Arduino Programming for different Sensors	PO3, PO5	3

Assessment Procedure: The assessment of the Add on course is conducted in Multiple Choice Questions through offline mode.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 12.11.2021

PROGRAM REPORT

Name of the Value Added Course: Python Programming

Day/Duration : 05.11.2021 to 11.11.2021 (7 Days) -36 Hrs

Time : 09:30 AM to 04:30 PM

Resource Person : Mrs. Kiranmai, Assistant Professor, Department of CSE,VIEW

Name of the Coordinator: Mrs. P. Renuka, Assistant Professor, Dept of EEE, VIEW

Number of Participants : 46

Course Objectives:

1. To designed and provide basic knowledge of PYTHON
2. To be familiarized with universal computer programming concepts like data types, containers.
3. To be familiarized with general computer programming concepts like conditional execution, loops & functions

Topics Covered: The following topics covered in this program

Fundamentals of Python: Introduction to Python to Python, Running Python Programs, Writing Python Code, working with data, Data types and Variables, Using numeric variables, Using string variables

Input and Output: printing with Parameters, Getting Input from a user , String Formatting,

Making Decisions, Logical Expressions: If Statements, Logical Operators, Complex Expressions, Finding and Fixing Problems, Types of Errors, troubleshooting tools, Using the Python debugger

Lists and Loops Introduction: Lists Functions, Loops Functions, For loop with Examples, While loop with Examples

Numeric and Date Functions: Dates and Times, Advanced time and Management, Random Numbers, The Math Library

Working with Strings: Character Data, String Functions, Exception with "try / except"

Function's introduction: Writing and Calling Functions, Function Inputs and Outputs, Local and Global Scope, installing Python Managing Projects • Using the Python IDE, Python Managing Projects, Using the Python IDE

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Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Develop Program Solving And Programming Capability	PO3,PO5,PO6, PO7	3
CO2	Implement Object-oriented Concepts	PO3,PO5.PO6	2
CO3	Implement database and GUI applications	PO3, PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through offline mode.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 12/11/2021

PROGRAM REPORT

Name of the Add-on Course: MATLAB, SIMULINK for Electrical Engineering Applications

Day/Duration : 05/11/2021 to 11/11/2021 (7 Days) - 36Hrs

Time : 09:30AM to 04:30 PM

Resource Person : Dr. K. DurgaSyam Prasad, Professor, Dept of EEE, VIEW

Name of the Coordinator: Mr. A. Chandraiah, Assistant Professor, Dept of EEE, VIEW

Number of Participants : 33

Course Objectives:

1. To know about the fundamentals of the MATLAB tool .
2. To provide an overview to program curve fitting & solve Linear and Nonlinear Equations.
3. To understand the concept and importance of Fourier transforms.
4. To gain knowledge about MATLAB Simulink & solve Electrical engineering problems.

Topics Covered: The following topics covered in this program

Introduction to MATLAB Programming: Basics of MATLAB Programming, array operations in MATLAB, loops and execution of control, working with files: Scripts and functions, plotting and programming output, examples

Numerical Methods and their applications: Curve Fitting: Straight line fit, Polynomial fit.

Linear and Nonlinear Equations: Eigenvalues, Eigen vectors, Solution of linear algebraic equations using Gauss Elimination and LU decomposition, Solution of nonlinear equation in single variable using Gauss siedal and Newton-Raphson method

Ordinary Differential Equations: Introduction to ODE's, Euler's method, second order RungaKutta method, MATLAB ode45 algorithm in single variable and multi variables.

Transforms: Discrete Fourier Transforms,

Applications to electrical engineering problems. MATLAB Simulink: Introduction to MATLAB Simulink, Simulink libraries, development of basic models in Simscape Power Systems

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Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to implement loops, branching, control instruction and functions in the MATLAB programming environment.	PO3, PO5	3
CO2	Able to program curve fitting, numerical differentiation and integration, solution of linear equations in MATLAB and solve electrical engineering problems	PO2, PO3	2
CO3	Able to understand implementation of ODE using ode 45 and execute Solutions of nonlinear equations and DFT in MATLAB.	PO4, PO5	2
CO4	Able to simulate MATLAB Simulink examples	PO3, PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Offline mode.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 10.03.2022

PROGRAM REPORT

Name of the Add on Course: IoT using Arduino.

Day/Duration :02.03.2022-09.03.2022(7 Days) - 42Hrs

Time: 09:30AM to 04:30 PM

Resource Person: Dr. P. Devendra Assoc. Prof.,Dept. of EEE,GVPW

Name of the Coordinator: Mr. K.V. Sriram prasad, Asst. Prof.

Number of Participants: 55

Course Objectives:

1. To understand the recent application domains of IoT in everyday life
2. To design and build an actual IoT system.

Topics Covered: The following topics covered in this program

Understanding IoT fundamentals: IOT Architecture and protocols, Various Platforms for IoT, Real time Examples of IoT, Overview of IoT components and IoT Communication Technologies.

Arduino Uno Architecture: Setup the IDE, Writing Arduino Software, Arduino Libraries, Basics of Embedded C programming for Arduino, Interfacing LED, push button and buzzer with Arduino.

Overview of Sensors working: Analog and Digital Sensors, Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino, Interfacing of Actuators with Arduino, Interfacing of Relay Switch and Servo Motor with Arduino.

Basics of wireless Networking: Introduction to ESP8266 Wi-Fi Module, Various Wi-Fi library, Web server- introduction, installation, configuration, Posting sensor data to web server.

M2M vs. IOT: Logic Gates, Communication Protocols, Lab session.

Virtualization concepts and Cloud Architecture limitations, Cloud computing, benefits, Cloud services -- SaaS, PaaS, IaaS, Cloud providers & offerings, Study of IOT Cloud platforms .

Running LEDs: Sand Glass Filling of LEDs, Sensor Interfacing, Seven Segment Display, Lab session.

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Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to choose the right hardware, software and protocols for the proposed application.	PO3	3
CO2	Able to learn the fundamentals of this emerging technology.	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through offline mode.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 10.03.2022

PROGRAM REPORT

Name of the Add-on Course: Green Energies

Day/Duration: 02.03.2022 to 09.03.2022(7 Days) - 42 Hrs

Time: 09:30AM to 04:30 PM

Resource Person: Dr. Y. Bhaskar S .S Gupta, Associate professor, Dept of EEE, VIEW.

Name of the Coordinator: Mr. V. Avinash, Assistant professor, Dept of EEE, VIEW.

Number of Participants: 52

Course Objectives:

1. Identify the essential characteristics and technical requirements of photovoltaic, wind, and low head hydroelectric energy systems.
2. To study maximum power point techniques in solar pv and wind energy.

Topics Covered: The following topics covered in this program

1. Introduction to green energy systems
2. Introduction to pollution effects
3. biofuel, Biomass- renewable energy from plants and animals
4. Real Time Applications based on green energy.
5. Introduction to Hydro Power, geothermal.
6. Introduction to Wind power, solar power, applications
7. Problem Based Green Energies

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Course Outcomes:

COs	At the end of the course, the student will have the ability to:	PSOs Mapped	Strength of mapping
CO1	Design solar photovoltaic systems	PO3,PO5	3
CO2	Develop maximum power point techniques in solar PV and wind energy systems	PO3,PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through offline mode.

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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 28.03.2022

PROGRAM REPORT

Name of the Add-on Course: Transmission and Braking system of EV

Day/Duration: 21.03.2022-26.03.2022(6 Days) - 36 Hours

Time:09:30 AM to 04:30PM

Resource Person Mr. Ch. Ganesh,Managing Director, Surya Renewable Energy Systems, Visakhapatnam.

Name of the Coordinator: Mr. P. Anil Kumar, Assistant Professor.

Number of Participants: 21

Course Objectives:

1. To Design a suitable transmission and braking system for the Electric Vehicle.
2. Manufacture, Assemble and attach it to the EV.

Topics Covered: The following topics covered in this program

1. Introduction, History, Components and Types of EV
2. Types of Transmission systems and their components, Design of Transmission system
3. Force analysis and Resistance acting on EV
4. Types of Braking Systems and their components, design, Selection of suitable material for braking system
5. Components Assembly, testing and integration
6. Vehicle speed and brake power testing

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to know about different types of EV and their working.	PO1	3
CO2	Able to Design suitable transmission and braking system for the Electric Vehicle	PO3	3
CO3	Able to manufacture and fix it to the EV	PO3, PO9	3

Assessment Procedure: The assessment of the Add-on course is conducted in Multiple Choice Questions.

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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 27.12.2021

PROGRAM REPORT

Name of the Add-on Course: 3D-Printing Technology

Day/Duration: 20.12.2021-24.12.2021(5 Days) - 35 Hours

Time:09:30 AM to 05:30PM

Resource Person Dr. V. Ananda Babu, Hod-ME, VIEW.
Name of the Coordinator: Mrs. S. Roopa, Assistant Professor.

Number of Participants: 38

Course Objectives:

1. To acquire the knowledge and skills to turn your ideas into objects and your objects into ideas.
2. To bring together a unique mix of academics and industry.
3. To access STL file repositories, 3D Printing online services.

Topics Covered: The following topics covered in this program

1. Additive Manufacturing approach. 3D Printing, specific terms,3D Printing advantages and limitations.
2. Type of 3D Printing processes: main characteristics, materials, advantages and limitations, STL file format
3. Fused Deposition Modelling /Fused Filament Fabrication process, FDM/FFF equipment
4. Access STL files repositories such as: Thingiverse, GrabCAD, Pinshape etc, Browse the repositories and download STL file
5. Access 3D Printing online services providers such as: 3D Hubs, Shapeways, Sculpteo, i.Materialise, QuickParts, Upload STL model, select material, 3D Printing process, machine, etc

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Knowledge on 3D Printing approach, Processes, 3D Printers.	PO1	3
CO2	Knowledge on materials issues in 3D Printing, modelling a 3D object from scratch using a 3D CAD software and on STL file format	PO5	3
CO3	Understand the difference between industrial 3D printers, desktop 3D printers and home/hobbyists 3D printers	PO4	3

Assessment Procedure: The assessment of the Add-on course is conducted in Multiple Choice Questions.

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 29-12-2021

PROGRAM REPORT

Name of the Addon Course: IoT based Embedded applications using Raspberry pi and python programming

Day/Duration :16-12-2021 to 23-12-2021(7 days)- 42 Hrs

Time:09:30AM to 04:30PM

Resource Person:K Kalyan, Pantech

Name of the Coordinator: Mr.B. Naga Srinivasa Rao,Assistant Professor

Number of Participants:68

Course Objectives:

1. This Course elucidates concepts Related to internet of Things.
2. The Students Will get hands-on Experience in working with raspberry pi and exploring IoT .

Topics Covered: The following topics covered in this program

1. Introduction to IoT, Sensing and Actuation,Positioning,Basics of Networking, Introduction to Raspberry Pi, Raspberry Pi Architecture, Procedure to install OS in Raspberry Pi
2. Communication Protocols, Sensor Networks, Machine-to-Machine Communications, Interoperability in IoT, Introduction to Arduino Programming
3. Integration of Sensors and Actuators with Arduino, Introduction to Python programming, Introduction to Raspberry Pi ,Implementation of IoT with Raspberry
4. Implementation of IoT with Raspberry continuation, Introduction to SDN, SDN for IoT, SDN for IoT continuation
5. Data Handling, Data Analytics, Cloud Computing, Cloud Computing Continuation, Sensor-Cloud Fog Computing, Smart Homes, Smart Grid, Connected Vehicles
6. Communication between Raspberry Pi and IoT-based Clouds
7. Industrial IoT, Agriculture, Healthcare, Activity, Monitoring

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understand the fundamentals of Raspberry Pi, Python Programming and Sensor interfacing.	PO3, PO4, PO5	3
CO2	Develop an IoT based embedded application.	PO5, PO6, PO7	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions.

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 29-12-2021

PROGRAM REPORT

Name of the Addon Course: Joy of computing using Python

Day/Duration :16-12-2021 to 23-12-2021 (7 days)- 42 Hrs

Time:09:30AM to 04:30PM

Resource Person:Mr.Md. Ajmal,Datapro

Name of the Coordinator: Mrs.P. Gowri Swetha

Number of Participants:69

Course Objectives:

1.The Students will be learning how to Practice and culture the art of programming with python as a language

2.To discuss the examples of using modules of Python to think logically and do coding.

Topics Covered:The following topics covered in this program

1. Motivation for Computing, Variables and Expressions Design your own calculator, Welcome to Programming, Lists, Tuples and Conditionals
2. Abstraction Everywhere : Apps in your phone, Counting Candies : Crowd to the rescue, Birthday Paradox : Find your twin, Google Translate : Speak in any Language.
3. Monte Hall : 3 doors and a twist, Sorting : Arrange the books, Searching : Find in seconds, Substitution Cipher What's the secret, Sentiment Analysis : Analyse your Facebook data:
4. 20 questions game : I can read your mind, Permutations : Jumbled Words, Spot the similarities : Dobble game
5. Count the words : Hundreds, Thousands or Millions, Rock, Paper and Scissor : Cheating not allowed, Lie detector : No lies, only TRUTH.
6. Snakes and Ladders : Down the memory lane, Recursion : Tower of Hanoi, Page Rank : How Google Works

7.Image Processing : Fun with images Tic tac toe : Let's play

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Make use of the Python Programming language to provide a solution to engineering problems.	PO3, PO5, PO6, PO7	3
CO2	Apply the syntax and advanced concepts to code to a specific application.	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions.

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 14.10.2021

PROGRAM REPORT

Name of the Addon Course : Introduction to MATLAB

Day/Duration :04th October-9th October 2021(36 hrs)

Time:09:30 AM-4:30 PM

Resource Person:S.Venkatesh,Electropro

Name of the Coordinator:P.Ashok Kumar

Number of Participants:56

Course Objectives:
1.To Know Fundamentals of MATLAB tool.

2.To Provide an overview to solve Linear and Non Linear Equations

Topics Covered:The following topics covered in this program

1. Introduction to MATLAB,Basic Features, Starting MATLAB, Creating MATLAB variables, Controlling the hierarchy of operations or precedence, Controlling the appearance of floating-point number.
2. Mathematical functions, Basic plotting, Creating simple plots, Adding titles, axis labels, and annotations, Multiple data sets in one plot, Specifyingline styles and colors, Introduction to programming in MATLAB
3. Control flow and operators, Relational and logical operators, Other flow structures, Operator precedence, Saving output to a file.
4. Debugging M-files,introduction,Debugging Process, Preparing for debugging, setting break points, Running with break points, Examining Values
5. Mat lab Functions MATLAB User Defined Functions, CallingFunctions, Transfer Functions in MATLAB, Anonymous Functions in MATLAB,Mean Function in MATLAB
6. Kalman Filter,Low Pass Filter,Bandpass Filter,Matlab Root Finding,Simply MATLAB,Delta Function MATLAB

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Make use of MATLAB syntax for specific application	PO5	3
CO2	Write programs to solve complex engineering Problems	PO3,PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Google Form.

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 14.10.2021

PROGRAM REPORT

Name of the Addon Course : Python Programming Essentials

Day/Duration :04th October-09th October 2021(36 hrs)

Time:09:30AM-4:30 PM

Resource Person:Mr.Md.Azmal,Datapro

Name of the Coordinator:G.Swami Naidu

Number of Participants:61

Course Objectives:

1.To Learn core python scripting elements such as variables and flow control structures

2.To acquire object oriented skills in python

Topics Covered:The following topics covered in this program

- Invoking the Interpreter, The Interpreter and Its Environment ,using Python as a Calucalator,First steps towards Programming, Getting Familiar with Visual Studio Code,Data Types
- The Range Functions, break and continue Statements, and else Clauses on Loops , pass Statements . Defining Functions, More on Lists , The del statement , Tuples and Sequences .
- Looping Techniques .Logical Operators, More Operators! ,Arrays, Loops, Functions, Error Handling, Strings Control, File Handling, Object Oriented Programming Basics
- More on Modules ., Standard Modules , The dir() Function , Packages , Fancier Output Formatting , Reading and Writing Files , Syntax Errors , Exceptions
- Python Scopes and Namespaces, A First Look at Classes , Inheritance, Private Variables, Odds and Ends , Private Variables , Iterators , Generators
- Making a Calculator, Making a Quiz Game, making a Guess the Number Game, Making an ATM,

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	use Python Modules to code for real and Practical Tasks	PO5	3
CO2	Apply Python Programming to GUI based applications	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Google Form.

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 14.10.2021

PROGRAM REPORT

Name of th eAddon Course :PCB Design & testing

Day/Duration :04th October-09th October(36 hrs)

Time:09:30 AM:04:30 PM

Resource Person: **Mr.K.Ganesh**

Name of the Coordinator:Mr.B.Ravi

Number of Participants:62

Course Objectives:

1.To Famililiarize the Electronic Components and basic electronic instruments

2.To Make Familiar with PCB design and various processes involved

Topics Covered:The following topics covered in this program

- Introduction to PCB, Types of PCBs Advantages of PCB Design¬ & Fabrication Methods of manufacturing PCB, Introduction to Proteus, Steps in Proteus,Schematic Design,Annotation, Electric Rule Check, Net List Generation, BOM Generation,CVPCB - Changing Components to Module
- Footprint Description Selecting and Assigning Footprint, , Designing the tracks Gerber File Generation, Component Creation Adding components to Library, Footprint Creation.
- Etching Process Drilling process and Drilling Techniques, Soldering Techniques, Soldering process Other manufacturing processes, & Industrial Manufacturing Videos Circuit Explanation, Testing the Board
- Proteus software tool explanation, Schematics Creation, Making print on copper board, Etching process., Soldering and testing components on board.
- Layout preparation of PCB., Making print on copper board, Etching process., Soldering and testing components on board.
- Hands on session in both Hardware & Software

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Develop a single and multilayer PCB board	PO3,PO4	3
CO2	Utilize the designed PCB board for hardware connections	PO4	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Google Form.

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 31.03.2022

PROGRAM REPORT

Name of the Addon Course : Embedded system design using MSP430 Microcontroller

Day/Duration : 21.03.2022-26.03.2022(36 Hrs)

Time: 09:30 AM-04:30PM

Resource Person: Mr.T.Pradeep, Apply Volt

Name of the Coordinator: D.Appanna Tataji, Asst.Professor

Number of Participants: 60

Course Objectives:

1.To enable to understand embedded system programming and apply the knowledge to design and develop embedded solutions

2.identify hardware and software components to build an embedded system

Topics Covered: The following topics covered in this program

- Introduction to Embedded Systems and Computer Systems Terminology, Modular approach to Embedded System Design, Microcontroller Based Embedded System Design
- Introduction to MSP430 Microcontroller, MSP430 CPU Architecture. Programming Methods for MSP430., Introduction to Lunchbox Platform
- Advanced Physical Interfacing, Programming the MSP430, Installing and using Code Composer Studio(CCS)
- Introduction to Embedded C, Interfacing LEDs and Switches with MSP430 using Digital Input and Output, Interfacing Seven Segment Displays and Liquid Crystal Displays with MSP430
- MSP430 Clock and Reset System, MSP430 Clock sources and distribution, Types of Reset sources. Handling Interrupts in MSP430, ADC operation in MSP430, Adding DAC to MSP430
- Building an Electronics Project.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	understand the basic concepts of circuit emulators	PO5	3
CO2	Life cycle of embedded design and its testing	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Google Form.

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 31.03.2022

PROGRAM REPORT

Name of theAddon Course : Microcontroller based system design

Day/Duration :21.03.2022-26.03.2022(36 Hrs)

Time:9:30AM-4:30PM

Resource Person: Dr.Puvvada Ramesh,Rtd.Professor

Name of the Coordinator: Mrs.N.N.N.Spandana,Assistant Professor

Number of Participants:62

Course Objectives:

1.To enable the students to design and interfacing of microcontroller based embedded systems

2.To use the high level languages to interface the micro controller to various applications

Topics Covered:The following topics covered in this program

- Introduction to embedded systems, system on chip-challenges in embedded computing system design, PIC microcontrollers: History and features, CCS C Compiler and PIC18F Development System
- PIC Architecture & Programming, PIC I/O Port Programming, PIC Programming in C, PIC18 Hardware Connection and ROM loaders, PIC18 Timers Programming, PIC18 Serial Port Programming
- LCD and Keypad Interface, External EEPROM, USB and HID Class, ADC and DAC, Sensor and other Applications, CCP and ECCP Programming
- Capture Mode Programming and Pulse Width Measurement, C# RS232 Interface Programming, C# GUI Plot Program, Digital Oscilloscope, spectral Analyzer, and multimeter

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understand the importance of Peripheral devices for data Communication	P05	3
CO2	Develop a micro controller based product for engineering Problems	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Google Form.

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date:31.03.2022

PROGRAM REPORT

Name of theAddon Course :Advanced Radar signal processing

Day/Duration :21.03.2022-26.03.2022(36 Hrs)

Time:9:30am-4:30PM

Resource Person:Mr.A.Sesha Rao,Rtd.Scientist NSTL

Name of the Coordinator:Mr.Sk.Ahemed Ali

Number of Participants:

Course Objectives:

1. To enable the students for studying advanced techniques, such as radar imaging, advanced waveforms
2. Evaluate radar signal processing algorithm performance and limitations.

Topics Covered:The following topics covered in this program

- Fundamentals of radar systems, Propagating EM waves in space and time, Doppler shift, Range equation, system structure, Signal Models, Radar cross section of targets and clutter, multipath
- statistical signal models, Swerling models, advanced (compound) statistical signal models for clutter, convolution models in range and angle
- Basic waveforms: simple pulse, LFM, coherent pulse train, Coded waveforms: frequency, phase (biphase, Costas), MCW, step-freq, Optimum waveforms for time delay, velocity, acceleration measurements
- Sampling complex band pass signals, Sampling rates in range, angle, Doppler, space, I/Q imbalance and correction techniques, Matched filter (vector formulation
- MTI as approximation to matched filter for unknown target velocity, DFT/pulse Doppler approx to matched filter for known target velocity, Optimal Detection

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Learn the principles and objectives of basic signal processing methods fundamental to all radars.	PO3,PO4	3
CO2	Understand interference suppression methods for noise, clutter, and jamming	PO3,PO4,PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Google Form.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 27.12.2021

PROGRAM REPORT

Name of the Addon Course: Essentials for Competitive Programming

Day/Duration : 16.12.2021 to 23.12.2021 (7 Days) - 35 Hrs

Time : 09:30 AM to 03:30PM

Resource Person : Ms.G.Sandhya, Asst. Prof., Dept. of CSE,
Mrs.N.Suneetha, Asst. Prof., Dept. of CSE,
Mr. J. Ravi Chandra, Technical Trainer, Dept. of T & P.

Name of the Coordinator : Mr.V.Rama Rao, Asst. Prof., Dept. of CSE,
Mrs.S.Chandra Vathi, Asst. Prof., Dept. of ECE,
Mr.M.Eswar Teja, Asst. Prof., Dept. of ME,
Mrs.P.Renuka,Asst. Prof., Dept. of EEE,
Mr.Netaji,Asst. Prof., Dept. of IT.

Number of students registered : 298
Number of Participants : 297

Course Objectives:

1. To improve logical and analytical skills.
2. To improve programming patterns like recursion.

Topics Covered: The following topics covered in this program

- Bit Manipulations
- Number Theory
- Recursions
- Recursions practice session
- Arrays
- Arrays practice session
- String Manipulations

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Apply bit manipulation techniques to solve problems.	PO3	3
CO2	Apply the modular programming techniques to simplify the programs.	PO5	3
CO3	Able to solve problems using strings.	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Online.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 27.12.2021

PROGRAM REPORT

Name of the Addon Course: Online Privacy

Day/Duration : 16.12.2021 to 23.12.2021 (7 Days) - 35 Hrs

Time : 09:30 AM to 03:30PM

Resource Person : Mr. S.Gopi, Mr. K.Ram Mohana Rao, Technical Trainers, APSSDC.

Name of the Coordinator : Mrs. M.N.Sravani, Asst. Prof., Dept. of CSE.

Number of students registered : 69

Number of Participants : 68

Course Objectives:

- Implement security design principles.
- Explain the core concepts of access control.
- Implement reference monitors.
- Apply security policies that are commonly used in modern operating systems.

Topics Covered: The following topics covered in this program

1. Introduction; Various Privacy breaches, and its effects; Why Online privacy has become an important topic?; Privacy cases / litigations, and outcome.
2. Definition & forms of Privacy; Difference between data security & data privacy; Trade-off between privacy, utility and freedom of speech; Contextual integrity theory and applications.
3. Privacy Attitudes & Awareness, Social Media Privacy.
4. Data anonymity: K-anonymity, L-diversity, T-closeness, Differential privacy.
5. Image & Location privacy; Ethics about studying online privacy: Institutional Review Board / Ethics Committee; Conducting {User, Lab, and Online} Studies; Privacy from 3rd party trackers & advertisers.
6. User behaviour & Usable privacy; Privacy in National projects like Aadhaar, NATGRID; Differential privacy in US census, Apple; PDP Bill / Sri krishna commission report / GDPR: Implications.
7. Privacy policies: Length, readability, legality, cost of reading privacy policies; Nutrition labels of Privacy policies: How to make the policies simple and user friendly

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Identify various privacy issues and threats in online platform.	PO3	3
CO2	Use the internet or social media platform in an effective manner.	PO5	3
CO3	Understand the threats and defend privacy through real-time and scalable systems.	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Online.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 27.12.2021

PROGRAM REPORT

Name of the Addon Course : Android Application Development

Day/Duration : 16.12.2021 to 23.12.2021 (7 Days) - 35 Hrs

Time : 09:30 AM to 03:30PM

Resource Person : Dr. Anjaneyulu Pasami, Professor, Department of CSE, VFSTR.

Name of the Coordinator : Mrs. Ch.Usha, Asst. Prof., Dept. of CSE.

Number of students registered :70
Number of Participants :69

Course Objectives:

- To understand the basics of the Internet, building a web application, databases.
- To understand the performance and security and building a mobile application.

Topics Covered: The following topics covered in this program

1. Introduction to Internet
2. Building your webapp
3. Databases
4. Introduction to Client-side Javascript
5. Introduction to security for webapps
6. Mobile Application Development
7. Building a Blog App

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Write simple GUI applications, use built-in widgets and components.	PO3	3
CO2	Work with the database to store data locally.	PO3	3
CO3	Able to develop a prototype which operates with the Parse web service.	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through online mode.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 22.3.2022

PROGRAM REPORT

Name of the Addon Course: Design for IoT

Day/Duration : 11.03.2022 to 19.03.2022 (7 Days) - 42 Hrs

Time : 09:30AM to 04:30PM

Resource Person : Dr.S.Kranthi Kumar, Assoc. Prof., Dept. of CSE, GITAM.

Name of the Coordinator : Mr.R.Ravi, Asst. Prof.

Number of Participants : 67

Course Objectives:

1. To understand the recent application domains of IoT in everyday life
2. To design and build an actual Course Outcomes.

Topics Covered: The following topics covered in this program

- Introduction to IoT – Definition, Applications, Challenges – Unique ID, Power, Security, Location, Addressing the Power challenge – RFID.
- Energy harvesting, Battery based systems, Power management systems, System design for low power – LDO.
- DC-DC converters, low power software, Sensors and actuators – Temperature sensor, Air quality, Solenoid valves.
- Power management algorithms, IoT protocols – MQTT, COAP.
- Web sockets with associated applications, Low power wireless technologies – BLE, IEEE 802.15.4e.
- Low power wireless technologies –Wi-Fi.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to choose the right hardware, software and protocols for the proposed application.	PO3	3
CO2	Able to learn the fundamentals of this emerging technology.	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Google Form.

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Date: 21.03.2022

PROGRAM REPORT

Name of the Addon Course: Cyber Security Essentials

Day/Duration : 11.03.2022 to 19.03.2022(7 Days) – 42 Hrs

Time : 09:30AM to 04:30PM

Resource Person : Santosh Chaluvadi, CEO, Supraja Technologies, Vijayawada

Name of the Coordinator : Ms. B Haritha Laxmi, Asst Prof Dept. of CSE.

Number of Participants : 67

Course Objectives:

1. To enhance awareness about cyber security challenges and cyber ethics.
2. To become responsible cyber citizens and participate safely and securely in rapidly evolving information-age society.

Topics Covered: The following topics covered in this program

- Introduction to Cyber Space: History of Internet, Cyber Crime, Information Security and Computer Ethics.
- Guidelines to choose Best Browser according to the requirement and email security.
- Guidelines for secure password and wi-fi security, Two-steps authentication, Password Manager.
- Guidelines for social media and basic Windows security ,Tips and best practices for safer Social Networking ,Basic Security for Windows ,User Account Password
- Smartphone security guidelines, Introduction to mobile phones ,Smartphone Security, Android Security, IOS Security.
- **Cyber Security :** Counter Initiatives in India ,. Exercise, Incident Handling and Assurance.
- Online Banking Security, Mobile Banking Security ,Security of Debit and Credit Card ,UPI Security

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to understand cyber security landscapes.	PO3	3
CO2	Able to identify software vulnerabilities and security solutions to reduce the risk of exploitation.	PO3	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Online.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 21.03.2022

PROGRAM REPORT

Name of the Addon Course : Fundamentals and applications in Computer Vision

Day/Duration :11.03.2022 to 19.03.2022(7 Days) - 42 Hrs

Time : 09:30AM to 04:30PM

Resource Person : Mr.Ganesh Nagu Doddi, CEO, Brain O Vision

Name of the Coordinator : Mr. A. Maheswara Rao, Assistant Professor, Dept of CSE.

Number of Participants : 65

Course Objectives:

- To study about image processing concepts.
- To learn about the fundamental concepts those are involved in image formations and various applications of Computer vision.

Topics Covered: The following topics covered in this program

1. Introduction to Computer Vision and Basic Concepts of Image Formation, Introduction and Goals of Computer Vision and Image Processing.
2. Fundamental Concepts of Image Formation, Radiometry, Geometric Transformations, Geometric Camera Models.
3. Image Processing Concepts, Image Transforms, Image Enhancement.
4. Image Filtering, Color Image Processing, Image Segmentation, Image Descriptors and Features.
5. Texture Descriptors, Colour Features, Edges/Boundaries, Applications of Computer Vision. Artificial Neural Network for Pattern Classification, Convolutional Neural Networks, Autoencoder
6. Applications of Computer Vision, Gesture Recognition, Motion Estimation and Object Tracking.
7. Practice session & assessment.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Apply image formation concepts in various applications.	PO5	2
CO2	Understand Image processing, Image Formation and Image Descriptors.	PO2	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Offline.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 10.03.2022

PROGRAM REPORT

Name of the Addon Course: Data Science for Engineering

Day/Duration : 02.03.2022 to 08.03.2022(6 Days) - 36 Hrs

Time : 09:30AM to 04:30PM

Resource Person : Ms.Priya Bhargavi, Alumni, System Analyst, IBM

Name of the Coordinator : Mrs. Shaik Rahimunnisa, Assistant Professor, Dept of CSE.

Number of Participants : 64

Course Objectives:

1. To understand the recent application domains of Data Science in everyday life.
2. To design and build a Real time Data Science Models.

Topics Covered: The following topics covered in this program

1. Data Analytics Lifecycle Overview, Key Roles for a Successful Analytics Project, Background and Overview of Data Analytics Lifecycle.
2. Data Preparation, Preparing the Analytic Sandbox, Performing ETL, Learning About the Data, Data Conditioning, Survey and Visualize, Common Tools for the Data Preparation Phase.
3. Case Study: Global Innovation Network and Analysis (GINA), Discovery, Data Preparation, Model Planning, Operationalize.
4. Risk and Loss in Unsupervised Learning, Expectation–Maximization (EM) Algorithm, Clustering via Mixture Models.
5. Clustering via Vector Quantization, K-Means, Clustering via Continuous Multiextremal Optimization.
6. Principal Component Analysis (PCA), Motivation: Principal Axes of an Ellipsoid, PCA and Singular Value Decomposition (SVD).

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Demonstrate proficiency with statistical analysis of data.	PO2	3
CO2	Develop the ability to build and assess data-based models.	PO3	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Offline.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 10.03.2022

PROGRAM REPORT

Name of the Addon Course: Advanced Mobile Applications

Day/Duration : 02.03.2022 to 08.03.2022(6 Days) - 36 Hrs

Time : 09:30AM to 04:30PM

Resource Person : Senthil Kumar, Academic Partner, Pantech eLearning Pvt Ltd.

Name of the Coordinator : Ms. M. Pallavi, Assistant Professor, Dept of CSE.

Number of Participants : 62

Course Objectives:

1. To facilitate students to understand android SDK 2.
2. To help students to gain a basic understanding of Android application development.

Topics Covered: The following topics covered in this program

1. Why Mobile Apps? App Design Issues and Considerations
2. IDEs and Editors, Using Eclipse for Android Development and Android Navigation and Interface Design
3. Lists in Android: Navigation and Information Display, Maps and Location in Android.
4. Type Script, Basic Types Functions Interfaces and Classes Decorators Angular.
5. Web Components, Why Do We Need Web Components? Custom Elements, Shadow DOM, HTML Templates, HTML ports.
6. List Component, Simple List, Header and Separ Grouping of Items Icons, Avatars, Thumbnails.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Identify various concepts of mobile programming that make it unique from programming for other platforms.	PO2	3
CO2	Develop the ability to build and assess data-based models.	PO3	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Offline.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 10.03.2022

PROGRAM REPORT

Name of the Addon Course: Power BI Reporting

Day/Duration : 02.03.2022 to 08.03.2022 -36Hrs

Time : 09:30AM to 04:30PM

Resource Person : V. P. Singh,Academic Partner, Pantech eLearning Pvt Ltd

Name of the Coordinator : Mrs. N. Sowjanya Kumari, Assistant Professor, Dept of CSE.

Number of Participants : 66

Course Objectives:

- Microsoft Power BI is used to find insights within an organization's data.
- Power BI can help connect disparate data sets.
- Transform and clean the data into a data model and create charts or graphs to provide visuals of the data.

Topics Covered: The following topics covered in this program

1. Power Pivot and the Power BI Family: Making Sense of the Various Versions, Loading Data Into Power Pivot, Intro to Calculated Columns, Introduction to Power BI.
2. IF(), SWITCH(), BLANK() and Other Conditional Fun SUMX() and Other X ("Iterator") Functions.
3. "Complicated" Relationships, Row and Filter Context Demystified
4. CALCULATE and FILTER – More Nuances.
5. The tool chest called Power BI process.
6. Power BI Parts and Pieces.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Create charts and graphs.	PO3	3
CO2	Create reports and dashboards that are collections of visuals.	PO3	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through Offline.

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DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 23.12.2021

PROGRAM REPORT

Name of the Add-on Course: 3D Animation Essentials

Day/Duration: 13.12.2021 to 20.12.2021 (7 Days) - 35 Hours

Time: 09:30 AM to 04:30 PM

Resource Person Mr. Y. Venkatesh 10gminds, Trainer, Visakhapatnam

Name of the Coordinator: Mr. P. Mohan Ganesh, Assistant Professor.

Number of Participants: 59

Course Objectives:

1. To describe the process of creating three-dimensional animation
2. To explain the history of three-dimensional animation.

Topics Covered: The following topics covered in this program

1. 3D Animation Overview
2. Working in 3D Animation Preproduction, Production, Postproduction
3. Understanding Digital Imaging and Digital Video
4. Using Principles of Fine Art and Traditional Animation
5. Understanding Modeling and Texturing
6. Rigging and Animation
7. Understanding Visual Effects and Lighting

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to understand production pipeline to create 3-D animation.	PO3	3
CO2	Able to apply various tools of digital 3-D animation.	PO5	3

Assessment Procedure: The assessment of the Add-on course is conducted in Multiple Choice Questions

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Head of the Department

DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 29.10.2021

PROGRAM REPORT

Name of the Add-on Course: Scripting Languages for Web Development

Day/Duration: 18.10.2021 to 26.10.2021 (8 Days) - 40 Hours

Time: 09:30 AM to 04:30 PM

Resource Person: Mr. GANESH NAGU DODDI, CEO, Brain-O-Vision

Name of the Coordinator: Mr. Y. Laxmana Rao, Assistant Professor.

Number of Participants: 53

Course Objectives:

1. To write backend code in PHP language and Writing optimized front end code HTML and JavaScript
2. To understand, create and debug database related queries and Create test code to validate the applications against client requirement.

Topics Covered: The following topics covered in this program

1. Introduction to HTML and CSS
2. JavaScript and Advanced Object concepts
3. Introduction to PHP , Arrays and Functions
4. Introduction to Python and OOPS concepts
5. PERL , Hashs and File Handling
6. Fundamentals of Angular JS
7. Fundamentals of Ruby
8. Fundamentals of NODE JS

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to demonstrate and understand the basic concepts of web programming.	PO1	3
CO2	Able to write well-structured, easily maintained, standards-compliant, web pages using HTML and CSS code	PO2	3
CO3	Able to apply techniques of form validation using Java Script.	PO3	3

Assessment Procedure: The assessment of the Add-on course is conducted in Multiple Choice Questions

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Date: 28.3.2022

PROGRAM REPORT

Name of theAddon Course : Cultural Management

Day/Duration :**02-03- 2022 to 24-03- 2022**- 40 Hours

Time :**03:00 PM to05:00PM**

Resource Person:**Dr.S.Murali Krishna, Assoc. Prof., Dept. of MBA, ED CELL , VIIT.**

Name of the Coordinator: **Mrs.T.Suguna**,**Asst. Prof.**

Number of Participants:**65**

Course Objectives:

1.Studying a fundamentally new approach to company's management, taking into consideration cultural differences.

2. To impart knowledge regarding Culture management

Topics Covered:The following topics covered in this program

1. Introduction Cultural management and Behavior of arts/ cultural producers / consumers, Evaluating consumer behavior.
2. Methodologies aimed at arts/culture/heritage.
3. Philosophical approaches to arts/culture/heritage.
4. How does collaboration influence culture.
5. Cultural negotiation and process.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understanding the modern interpretation of the national culture and impact of culture to the major management process.	PO3	2
CO2	Developing skills in communication, team-building, motivation leadership and negotiation in multicultural environment.	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions.

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Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Date: 03.02.2022

PROGRAM REPORT

Name of theAddon Course : SAP FICO

Day/Duration : 02.12.2021 to 31.01.2022 (20 Days) - 40 Hrs

Time: 3.00 PM to 5.00 PM

Resource Person: Mrs. P. Sunitha, Programmer, Data Pro

Name of the Coordinator: Mrs. M. Satyavathi, Asst. Prof

Number of Participants: 29

Course Objectives:

1. SAP FICO allows an organization to store a complete version of their financial transaction data.
2. To help companies generate and manage financial statements for analysis and reporting, as well as to aid in effective business planning and decision-making.

Topics Covered: The following topics covered in this program

1. Introduction to SAP R/3, Financial Accounting Basic Settings
2. General Ledger Accounting, Accounts Payable, Accounts receivable
3. Asset Accounting, Reports, Basic settings for controlling
4. Cost Center Accounting, Profit Center Accounting, BRS, Integration

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to process the payroll for an employee and also able to enable a more engaged and productive workforce.	PO3	3
CO2	It helps to manages the gross and net pay, which also includes the payments and deductions calculated.	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through offline.

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KapuJaggarajupeta, Vadlapudi (Post), Visakhapatnam – 530 049

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Date: 03.02.2022

PROGRAM REPORT

Name of theAddon Course : SAP Payroll

Day/Duration : 02.12.2021 to 31.01.2022 (20 Days) - 40 Hrs

Time: 3.00 PM to 5.00 PM

Resource Person: Mr. Ganta Anil Kumar, Data Pro

Name of the Coordinator: Mrs. M. Sirisha Rani, Asst. Prof

Number of Participants: 23

Course Objectives:

1. To calculate the remuneration for each employee with respect to the work performed by them.
2. Generate various lists related to remuneration and deductions performed in the system.

Topics Covered: The following topics covered in this program

1. Plan, SAP & ERP Introduction and uses, ERP Packages development.
2. Organization Enterprise structure
3. Personal administration, Infotypes
4. Introduction to time management, Wage types, Releasing payroll.
5. ABKRS, TARIF & LGSMT

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to process the payroll for an employee.	PO3	3
CO2	It helps to calculate the salary and wages of permanent and temporary employees of an organization.	PO5	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions through offline.

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DEPARTMENT OF BASICS AND HUMANITIES

Date: 29/01/2022

PROGRAM REPORT

Name of the Addon Course: Stress Management
Day/Duration: 21-01-2022 to 28-01-2022 (06 days) 36hrs
Time: 09:30AM to 04:30 PM
Resource Person: Dr.T.Radhakrishna Murthy, Professor, VIEW
Name of the Coordinator: Mrs.M.VenuMadhuri, Asst Professor, Dept of BS &H.
Number of Participants: 65

Course Objectives:
By the end of this course, students should be able to;

- Define key terms related to stress, the stress response, and stress management.
- Explain the physiological and psychological changes that occur in response to stress.
- Identify the positive and negative effects of stress.
- Identify various stress management techniques and the benefits of each technique.

Topics Covered: The following topics covered in this program

1. Introduction: Stress Management,Understanding Stress,Different Kinds of Stress
2. Stress & Illness – A 'Job-Strain' Model,Stressors and Stress Factors
3. Scientific Foundations of Stress,Stress Psychophysiology
4. Responses to Stress,Developing Resilience to Stress
5. Coping with Stress – A 5-Step Framework,Coping with Stress – Physical Techniques,Coping with Stress –Behavioural Techniques
6. Strategies for Relieving Stress,Summary: Stress Management

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understand the basic principles of stress management.	PO10&12	3
CO2	Develop proactive responses to stressful situations.	PO10&12	3
CO3	Learn to manage stress through diet, sleep and other lifestyle factors.	PO10&12	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions.

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DEPARTMENT OF BASICS AND HUMANITIES

Date: 29/01/2022

PROGRAM REPORT

Name of the Addon Course:Career Planning

Day/Duration: 21-01-2022 TO 28-01-2022 (06 days) 36hrs

Time: 09:30AM to 04:30 PM

Resource Person: Mr.SK.Chaitanya.Ch, Asst Professor, VIEW

Name of the Coordinator: Mr.B.Durga Prasad, Asst Professor, Dept of BS&H.

Number of Participants: 53

Course Objectives:

By the end of this course, students should be able to;

- Demonstrate a clearer understanding of the career exploration process and how their own skills and interests match up to a chosen major/career path.
- Learn how to write professional documents (resume, cover letter, thank you letter) to use for jobs, internships and post graduate program applications.
- Become part of a community within the Mentoring Network that provides insights and connections to help them make their career dreams a reality.

Topics Covered: The following topics covered in this program

1. Introduction to Career Planning,Knowing About Myself,Knowing About Myself,Career Decision-Making
2. Different Types of Careers and Impact of Technology on Career Planning
3. Thinking About Career,Careering In a Changing World,Working In a Global Economy
4. Organisational Culture,Alternative Ways of Working,Career and Family Roles,Launching an Employment Campaign
5. Mentoring as an Effective Tool and Succession Planning,Written Communication, Internet Job Search,Resume Critiquing
6. Interpersonal Communication,Negotiating Job Offers,First Job

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DEPARTMENT OF BASIC SCIENCES & HUMANITIES

Date: 29.01.2022

PROGRAM REPORT

Name of theAdd-on Course:LEGAL RIGHTS OF WOMEN
Day/Duration:21/01/2022 TO 28/01/2022(6 Days) – 36 Hrs
Time:09:30AM to 04:30PM
Resource Person: Dr. Hanieuddin, Director, NIST
Name of the Coordinator: Dr. D. Nirmala Devi, Assoc Professor, Dept of BS&H
Number of Participants: 58

Course Objectives:

1. Analyze and examine global women's rights issues
2. Assess policy approaches to women's rights issues
3. Critically assess policy approaches and solutions for global women's rights issues

Topics Covered:The following topics are covered in this program:

1.Definition of Women's rights in the constitutional perspective,Fundamental Rights,Directive Principles of State Policy

2.Formal equality and Substantive equality,Courts and their role in women's protection,Public Interest Litigation and Habeas Corpus petitions

3.Rights of girl child,Matrimonial rights,Working women's rights,Rights of mothers and custody of children

4.Protection against the domestic violence,Violence Against Women & Children

5.Rape & Sexual Offences Under IPC,Protection of Children from Sexual Offences Act

6.Women's Health and Safety,Women's rights (Reserved and Minorities)

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understand the basics of women's rights and human rights	6, 8 & 12	3
CO2	Define refugees and discuss women in war and refugee settings	6, 8 & 12	3
CO 3	Explore issues related to women's quests to escape poverty, including economic empowerment, sex trafficking, and sex work	6, 8 & 12	3

Assessment Procedure: The assessment of the Add- on course is conducted in Multiple Choice Questions.

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DEPARTMENT OF BASICS SCIENCES AND HUMANITIES

Date: 29/01/2022

PROGRAM REPORT

Name of the Addon Course: Critical Thinking

Day/Duration:21/01/2022 to 28/01/2022 (06 days) 36hrs

Time: 09:30AM to 04:30 PM

Resource Person: Dr.ShivaSatyaNarayana, Assoc Professor, JCI

Name of the Coordinator: Mr. S.K.Chaitanya Ch., Asst Professor, Dept of BS&H

Number of Participants: 50

Course Objectives:

By the end of this course, students should be able to;

- Define accurately the term critical thinking
- Understand why we should critically think
- Bring out the critical thinking skills
- Apply knowledge of critical thinking to practical situations

Topics Covered: The following topics covered in this program

1. Introduction to Critical Thinking, The Potential of Critical Thinking,The Realities of Critical Thinking
2. Critical Thinking and its Importance in Education, Critical Thinking in Academic Contexts,The Power of Critical Thinking
3. Making Sense of Arguments, Critical Thinking in Morality and the Law,Fallacies and Persuaders
4. Inductive Reasoning and Analogies,Inference to the Best Explanation
5. Mapping and Evaluating, Arguments, Sources and Causes
6. Causal and Deductive Arguments,Obstacles to Critical Thinking

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	To create awareness in the participants with regard to understanding the importance of the critical thinking	PO6&12	3
CO2	To empower participants by providing them with Relevant inputs and also sharpening their critical thinking	PO6&12	3
CO3	To impart relevant knowledge and draw Logical Conclusions and implications from the analysis of an issue or problem.	PO6&12	3

Assessment Procedure: The assessment of the Addon course is conducted in Multiple Choice Questions.

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Date: 3/05/2022

PROGRAM REPORT

Name of theAdd on Course:Hardware Maintenance

Day/Duration : 25/04/2022 To 30/04/2022(6 Days) - 36Hrs

Time:09:30AM to 04:30PM

Resource Person:Mr.A.M.Maheshwarao, Asst. Professor, Dept. of CSE

Name of the Coordinator: Mr.KV.V.Ganeshwararao,Asst Professor, Dept. of B S&H

Number of Participants: 70

Course Objectives:

- Identify the existing configuration of the computers & peripherals.
- Upgrading the same as & when required.
- Apply their knowledge about computer peripherals to identify/rectify problems on board

Topics Covered:The following topics covered in this program

1. Computer Fundamental
2. Generation of computer.
3. Recognize of Motherboard layout, Components
4. Generations of Processor,Types of Instruction Set
5. Memory Form Factors and Slot Types,Memory Types
6. Introduction to Networking,Types of Network,Network Categories

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understand the fundamentals of Hardware, handling, testing & troubleshooting of personal computer problems	PO8	3
CO2	Identify the essential components of a computer	PO12	3

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DEPARTMENT OF BASIC SCIENCES & HUMANITIES

Date: 03.05.2022

PROGRAM REPORT

Name of theAdd-on Course: Basics of Web designing
Day/Duration:25/04/2022to30/4/2022(6 Days) – 36 Hrs
Time:09:30AM to 04:30P
Resource Person: Dr.Siva Rama Krishna T, Asst.Prof, JNTUK,UCEV
Name of the Coordinator: Dr Shouri Dominic, Asst.Professor, Dept of BS&H
Number of Participants:69

Course Objectives:

1. Define the principle of Web page design,basics in web design
2. Visualize the basic concept of HTML.
3. Recognize the elements of HTML.
4. Introduce basics concept of CSS.

Topics Covered: The following topics are covered in this program:

1. Basic principles involved in developing a web site., Planning process, Five Golden rules of web designing, Designing navigation bar, Page design, Home Page Layout, Design Concept.

2.Brief History of Internet, What is World Wide Web, Why create a web site, Web Standards, Audience Requirement

3.What is HTML, HTML Documents, Basic structure of an HTML document, Creating an HTML document, Mark up Tags, Heading-Paragraphs, Line Breaks, HTML Tags.

4.Introduction to elements of HTML, Working with Text, Working with Lists, Tables and Frames, Working with Hyperlinks, Images and Multimedia, Working with Forms and controls.

5. Concept of CSS, Creating Style Sheet, CSS Properties,CSS Styling(Background, Text Format, Controlling Fonts), Working with block elements and objects, Working with Lists an Tables

6.Creating the Web Site, Saving the site, Working on the web site, Creating web site structure, Creating Titles for web pages, Themes-Publishing web sites.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Be able to use the HTML programming languages	PO3	3
CO2	Runs the page has designed using HTML codes	PO3	3

Assessment Procedure: The assessment of the Add- on course is conducted in Multiple Choice Questions.

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Date: 3.05.2022

PROGRAM REPORT

Name of theAdd-on Course:INTRODUCTION TO ARTIFICIAL INTELLIGENCE
Day/Duration:25.04.22 to 30.04.22 (6 Days) – 36 Hrs
Time:09:30AM to 04:30PM
Resource Person:Mrs G PavaniLatha,Assistant Professor,Dept of CSE,VIEW
Name of the Coordinator:Dr Chandra SekharBeera, Assoc Professor, Dept of BS&H
Number of Participants: 52

Course Objectives:

1. To acquire knowledge on intelligent systems and agents
2. To be aware of formalization of knowledge,
3. To understand reasoning with and without uncertainty,
4. To be aware dynamics of machine learning and applications at a basic level.

Topics Covered:The following topics are covered in this program:

1.Introduction: Philosophy of AI -DefinitionsAI Concepts, Terminology, and Application Areas: Modeling a Problem as Search Problem, Uninformed Search

2.Heuristic Search, Domain Relaxations Local Search, Genetic Algorithms - Adversarial Search

3.Constraint Satisfaction -Propositional Logic & Satisfiability,Uncertainty in AI, Bayesian Networks

4.Bayesian Networks Learning & Inference, Decision Theory,Markov Decision Processes - Reinforcement Learning

5.Introduction to Deep Learning & Deep RL- Applications of AI: Image processing and Computer Vision - Robotic and Robot motion planning ; Natural Language Processing and information retrieval

6.AI: Issues, Concerns and Ethical Considerations,The Future with AI, and AI in Action

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understand what is AI, its applications and use cases and how it is transforming our lives	PO1&PO2	3
CO2	Explain terms like Machine Learning, Deep Learning and Neural Networks	PO1&PO2	3
CO 3	Describe several issues and ethical concerns surrounding AI	PO1&PO2	3
CO 4	Prepare for taking advances into a variety of advanced courses in sub fields of AI	PO1&PO2	3

Assessment Procedure: The assessment of the Add- on course is conducted in Multiple Choice Questions.

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Date: **3 .05.2022**

PROGRAM REPORT

Name of theAdd-on Course:EFFECTIVE TIME MANAGEMENT
Day/Duration:25.04.22 TO 30.04.22(6 Days) – 36 Hrs
Time:09:30AM to 04:30PM
Resource Person:Dr. N.B. Harshavardhan Reddy, Soft skill Trainer, JCI
Name of the Coordinator: DrS K Chaitanya Ch.Asst .Professor, Dept of BS&H.
Number of Participants:59

Course Objectives:

1. Recognize the myths and reality of time management
2. Define their values, goals, targets and priorities
3. Develop a workable balance between being reactive and proactive
4. Plan workloads and take a positive approach to decisions and develop an effective time management system

Topics Covered:The following topics are covered in this program:

1.What is time management? The myths and magic of time
Preparing for marathon, not the sprint – exploring sustainable principles

2.Slicing the pie – how to avoid overdraft,Setting goals and objectives – efficiency Vs effectiveness – taking control,The power of the pro-active manager

3.Prioritizing your workload – urgency vs importance,Planning your day – time management systems explored,Recognizing personal blocks &Managing and making use of Technology

4.Minimizing stress – time management as life-saver,Profiling your time -Dealing with typical Time Wasters

5.Techniques of Task Prioritization & Prioritizing workload and focusing the key tasks Ways to say 'NO' assertively

6.Delegating tasks- Action Planning – Check List management -

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Identify your own particular time wasters and adopt strategies for reducing them.	PO8, PO9 &PO12	3
CO2	Recognize the variety of causes of procrastination and apply relevant techniques to overcome these.	PO8, PO9 & PO12	3
CO3	Clarify and prioritize your objectives and goals, by creating more planning time.	PO8, PO9 & PO12	3
CO4	Adopt appropriate strategies for dealing with interruptions	PO8, PO9 & PO12	3
CO5	Use practical techniques for organizing work.	PO8, PO9 & PO12	3

Assessment Procedure: The assessment of the Add-on course is conducted in Multiple Choice Questions.

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