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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 13.12.2017

PROGRAM REPORT

Name of the Value Added Course: Design and fabrication of PCB

Day/Duration : 04.12.2017 to 11.12.2017(7 Days) - 36Hrs.

Time: 09:30AM to 04:30 PM

Resource Person: Mr. N Mahidhar, Millennium Software Solutions, Visakhapatnam.

Name of the Coordinator: Mr. K Chiranjeevi, Assistant professor, Dept of EEE, VIEW College

Number of Participants: 56

Course Objectives:

1. To design PCB using the software. PCB (Printed Circuit Board) designing is an integral part of each electronics product
2. To design to make students capable to design their own projects PCB up to industrial grade.

Topics Covered: The following topics covered in this program

Introduction to PCB designing concepts: What is PCB, Difference between PWB and PCB, Types of PCBs: Single Sided (Single Layer), Multi-Layer (Double Layer) PCB Material

Introduction to Electronic design Automation (EDA):

Brief History of EDA, Latest Trends in Market, How it helps and Why it requires Different EDA tools, Introduction to SPICE and PSPICE Environment, Introduction and Working of PROTEUS

Component introduction and their categories:

Active Components: Diode, Transistor, MOSFET, LED, SCR , Integrated Circuits

Passive Components : Resistor, Capacitor, Inductor, Transformer, Speaker/Buzzer

Practical of PCB designing:

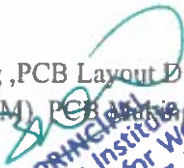
PCB Designing Flow Chart , Schematic Entry , Net listing ,PCB Layout Designing Prototype Designing, Design Rule Check(DRC), Design For Manufacturing(DFM), PCB Manufacturing: Printing ,Etching ,Drilling, Assembly of components

PCB Materials : Standard FR-4 Epoxy Glass ,Multifunctional FR-4 ,High Performance Functional FR-4 ,NelcoN400-6,GETEK ,BT Epoxy Glass, Cyanate Aster ,Plyimide Glass, FR-2

PCB Designing Practice :

PCB Designing of Basic and Analog Electronic Circuits, PCB Designing of Power Supplies ,PCB Designing of Different Sensor modules ,PCB Designing of Electronics Projects, PCB Designing of Embedded Projects





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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	Students will also be able to create schematics from blue-prints, they will also be able to perform simple Simulations	PO3	3
CO2	The course is intended to give the students the necessary knowledge and of PCB design steps, starting from a simple schematic, through creating new components, and all the way to down a final PCB layout ready for population	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: 13.12.2017

PROGRAM REPORT

Name of the Add on Course: Basics on Electrical home laboratory

Day/Duration : 04.12.2017 to 11.12.2017(7 Days) - 36 Hrs.

Time: 09:30 AM to 04:30 PM

Resource Person: Mr. K Durga Syam Prasad, Assoc. Prof., Dept. of EEE, VIEW.

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

Number of Participants: 65

Course Objectives:

1. To understand electrical wiring and providing uninterrupted power supply to all categories of consumers, i.e. assurance of quality in power supply.
2. To Design Parallel Wiring and lamps in series
3. To Design Automatic ups Wiring

Topics Covered: The following topics covered in this program

- Introduction to learn basics of household wiring, safety and testing, some information regarding electrical code rules and electrical permits
- Basics of electricity-flow of electricity, generation, transmission and distribution
- Distribution panel-the meter and main breaker, branch circuit breakers, neutral grounding and bonding
- Wires and cables-wire colors, Cable, types, number of conductors, sizes, jacket colors, Breakers and How They Protect Cables and Wires
- Rough wiring-Planning and Guidelines, Pulling Cable, Stapling, and Drilling Holes, Electrical Outlet Boxes, Installing Cables, Removing Sheath and Stripping Wires
- Electrical outlets and switches-Single Pole Switches, Three-way Switches (3-way), Four-way Switches (4-way)

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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 understand about electrical wiring	PO1,PO3	3
CO2	Able to connect switches and lamps in series and parallel and do the automatic UPS wiring design.	PO1,PO5	3
CO3	Design Automatic ups Wiring	PO1,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: 19.12.2017

PROGRAM REPORT

Name of the Add-on Course: Internet of Things using Arduino

Day/Duration: 11.12.2017 to 18.12.2017 (7 Days) - 42 Hrs.

Time: 09:30 AM to 04:30 PM

Resource Person: Mr. Suyog, Aakar IIT Bombay

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

Number of Participants: 43

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

- **Introduction to IOT:** IOT Architecture and protocols, Various Platforms for IoT, Real time Examples of IoT, Overview of IoT components and IoT Communication Technologies
- **Understanding IoT fundamentals**
- **Arduino Simulation Environment**
- **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
- **Sensors and Actuators 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
- **Over view of Sensors working:** Running LEDs, Sand Glass Filling of LEDs, Sensor Interfacing, Seven Segment Display, Lab Session
- **Basic Networking with ESP8266 Wi-fi Module:** Introduction to ESP8266 Wi-Fi Module, Various Wi-Fi library, Web server- introduction, installation, configuration, Posting sensor(s) data to web server
- **Basics of Wireless Networking :** M2M vs. IOT, M2M vs. IOT, Logic Gates, Communication Protocols, Communication Protocols, Lab session
- **IoT Protocols**
- **Cloud Platform for IoT:** Virtualization concepts and Cloud Architecture, Cloud computing, benefits, Cloud services -- SaaS, PaaS, IaaS, Cloud providers & offerings, Study of IOT Cloud platforms



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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: 19.12.2017

PROGRAM REPORT

Name of the Add on Course: **Internet of Things (IoT) Using Raspberry Pi**

Day/Duration: 11.12.2017 to 18.12.2017 (7 Days) - 42 Hrs

Time: 09:30 AM to 04:30 PM

Resource Person: Dr. Akanksha Mishra, Asst. professor, Department of EEE,VIEW.

Name of the Coordinator: Ms. K. Therissa, Asst. professor, Department of EEE,VIEW.

Number of Participants: 44.

Course Objectives:

- To explain about the overview of Understanding IoT fundamentals.
- To describe the Introduction to Raspberry Pi.

Topics Covered: The following topics covered in this program

1. Understanding IoT fundamentals, IOT Architecture and protocols, Real time Examples of IoT, Overview of IoT components and IoT Communication Technologies.
2. Definition of an embedded system in terms of its interface, Components of an embedded system, Hardware and software components in IoT devices.
3. Overview of Sensors working, Analog and Digital Sensors, Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino.
4. Introduction to Raspberry Pi, Understanding SoC architecture and SoCs used in Raspberry Pi , On-board components of Raspberry Pi and their functions.
5. Concept of users and the login process, Viewing and modifying the file system.
6. Installation of LAMP Web Server on Raspberry Pi.

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 about IoT fundamentals.	PO3	3
CO2	Able to apply various techniques on Raspberry Pi.	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: 25.07.2019.

PROGRAM REPORT

Name of the Add-on Course: High Efficient resources for Electricity generation

Day/Duration : 17-07-2017 to 24-07-2017 (7 Days) – 35 Hrs

Time : 09:30AM to 04:30 PM

Resource Person : Dr. B. Srinivas rao, Professor, GITAM, Dept. of EEE.

Name of the Coordinator: Ms. V. V. Sai Santoshi, Asst. Prof.

Number of Participants : 62

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. Solar Photo Voltaic systems
3. Introduction of Bio-mass and Geo-Thermal
4. Introduction of Hydro power And Hydro electric Power stations
5. Introduction to Wind and Tidal power
6. Introduction to Solar thermal Conversion
7. Problems based on green energy and real time applications

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Design solar photo voltaic systems	PO3,PO5	3
CO2	Develop maximum power point techniques in solar PV and wind energy systems	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: 28.07.2017

PROGRAM REPORT

Name of the Add-on Course: Severe Plastic Deformation Techniques

Day/Duration: 17.07.2017 to 24.07.2017- 42 Hours

Time: 09.30AM to 04.30PM

Resource Person: Mr.V.Ananda Babu, Assistant Professor, VIEW.

Name of the Coordinator: Mr.L.V.Suryam, Assistant Professor.

Number of Participants: 46

Course Objectives:

1. 3D modelling of the ECAP Process with various friction values using the Finite Element Software
2. Microhardness testing on the cross section of aluminium after processed with ECAP.

Topics Covered: The following topics covered in this program

- Severe Plastic Deformation Techniques
- Accumulative Back Extrusion
- High Pressure Torsion Extrusion
- High Pressure Tube Twisting
- Multi Directional Forging
- Equal Channel Angular Pressing
- Benefits of ECAP
- Limitations of ECAP

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understand to produce ultra-fine grained microstructure in poly crystalline materials.	PO2	3
CO2	Analyze how to do Hardness testing	PO5	3

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

V. Ananda Babu
Head of the Department



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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 27-02-2018

PROGRAM REPORT

Name of the Add-on Course: Welding Inspection

Day/Duration: 19-02-2018 to 24-02-2018 (6 Days) - 36 Hours

Time: 09:30AM to 04:30PM

Resource Person: Mr. A. Srinivasulu, Assistant Professor, JNTUK-UCEV

Name of the Coordinator: Mr. D. Kesava, Assistant Professor.

Number of Participants: 49

Course Objectives:

1. To understand the various facets of welding inspection and quality control.
2. To assess the validity of a welding procedure.

Topics Covered: The following topics covered in this program


1. Introduction
2. Weld terminology
3. Welding Imperfection
4. Welding Procedure Qualification
5. Material Inspection, codes and standards
6. Welding Process and Consumables

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 the different types of welding	PO3	3
CO2	Able to apply various tools of welding inspection.	PO5	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: 26.08.2017

PROGRAM REPORT

Name of the Add-on Course: Industrial Refrigeration and Air Conditioning

Day/Duration: 01.08.2017 to 24.08.2017 - 42 Hours

Time: 05:30AM to 07:30PM

Resource Person: Dr.K.Kiran Kumar, Associate Professor, NIT Warangal

Name of the Coordinator: Mr. A. V. Pradeep, Assistant Professor.

Number of Participants: 32

Course Objectives:

1. Learning the fundamental principles and different methods of refrigeration and air conditioning.
2. Study of various refrigeration cycles and evaluate performance using Mollier charts and/ or refrigerant property tables.
3. Comparative study of different refrigerants with respect to properties, applications and environmental issues.
4. Understand the basic air conditioning processes on psychometric charts, calculate cooling load for its applications in comfort and industrial air conditioning.
5. Study of the various equipment-operating principles, operating and safety controls employed in refrigeration air conditioning systems

Topics Covered:The following topics covered in this program

- Basic Definitions, Heat pump and Refrigerating Machine, Best Refrigeration Cycle, Chemical and process industries, Dairy plants, Petroleum refineries, Food processing units.
- Simple Vapor – Absorption System, Lithium- Bromide System, Steam-Jet refrigeration system, Thermoelectric refrigeration, Thermo acoustic refrigeration systems.
- Preliminary Considerations, Internal Heat Gains, System Heat Gains, Building Requirements and Energy Conservation in Air Conditioned Buildings, Air conditioning systems for automobiles (cars, buses etc.)
- Air conditioning systems for trains , Air conditioning systems for ships, Summer Air Conditioning, Winter Air Conditioning, Break-up of Ventilation Load and Effective Sensible Heat Factor, Cooling Load Estimate.
- Psychrometric Calculations for Cooling, Selection of Air-Conditioning Apparatus for Cooling and Dehumidification, Compressors, Condensers, Expansion Devices and Evaporators.
- A brief look at other components of the refrigeration and air conditioning system, Substitutes for CFC refrigerants.



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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	Illustrate the fundamental principles and applications of refrigeration and air conditioning system	PO3	3
CO2	Obtain cooling capacity and coefficient of performance by conducting test on vapour compression refrigeration systems	PO5	3
CO3	Obtain cooling capacity and coefficient of performance by conducting test on vapour compression refrigeration systems	PO6	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: 06-02-2018

PROGRAM REPORT

Name of the Addon Course: Communication Engineering Fundamentals

Day/Duration :29-01-2018 – 03- 02-2018 (6 days)- 36 hrs

Time:9.30AM -4.30 PM

Resource Person:Mr. T. Pradeep, Applyvolt

Name of the Coordinator:Mr. B. Sai Bharadwaj, Assistant Professor

Number of Participants:64

Course Objectives:

1. To explain the fundamentals of signals and sampling and outline the concepts of analog and digital communications.
2. To demonstrate the outputs for various modulation techniques using MATLAB.

Topics Covered:The following topics covered in this program

1. Characteristics of communication channel and their mathematical modeling; Convolution Integral and response of LTI system; Parseval's theorem, Random Process: mean, correlation and covariance; stationary and ergodic processes; power spectral density; Gaussian Process.
2. Concept of modulation and demodulation, Continuous wave (CW) modulation, angle modulation, Representation of narrowband noise; receiver model, signal to noise ratio (SNR), noise figure, noise temperature, noise in DSB-SC, SSB, AM & FM receivers, pre-emphasis and de-emphasis.
3. Sampling process, sampling theorem for band limited signals; pulse amplitude modulation (PAM); pulse width modulation (PWM); pulse position modulation (PPM) Basics of time division multiplexing, noise consideration in PAM and PCM systems.
4. Overview of geometric representation of signals, Gram-Schmidt Orthogonalization procedure; Basic digital modulations schemes: Phase shift keying (PSK), amplitude shift keying (ASK), frequency shift keying (FSK) and Quadrature amplitude modulation (QAM).
5. MATLAB Simulations for Amplitude modulation and demodulation (AM with carrier & DSBSC AM); frequency modulation and demodulation (using VCO & PLL, PWM, PCM; pseudo-random (PN) sequence generation; Generation and detection of signals for binary phase shift keying (BPSK) and binary frequency shift keying (BFSK). BER performance of BPSK signals.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	To discuss the modulation and demodulation techniques used in communication engineering.	PO3, PO4	3
CO2	To simulate and verify the output waveforms of analog modulation and digital modulation schemes.	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: 06-02-2018

PROGRAM REPORT

Name of the Addon Course : Fundamentals of Internet of Things & its Applications

Day/Duration : 29-01-2018 – 03-02-2018 (6days)- 36 hrs

Time: 9.30am – 4.30pm

Resource Person: Mr. S. Venkatesh, Electropro

Name of the Coordinator: Mr. V.S.V. Ranga Das, Assistant Professor

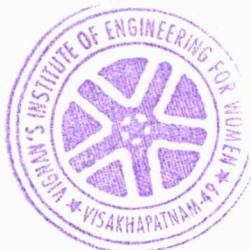
Number of Participants: 67

Course Objectives:

1. To explain the necessity of IoT in real-time applications.
2. To outline the design and development methodologies for IoT applications.

Topics Covered: The following topics covered in this program

1. FUNDAMENTALS OF IoT- Evolution of Internet of Things, Enabling Technologies, M2M Communication, IoT World Forum (IoTWF) standardized architecture, Simplified IoT Architecture, Core IoT Functional Stack, Fog, Edge and Cloud in IoT, Functional blocks of an IoT ecosystem, Sensors, Actuators, Smart Objects and Connecting Smart Objects.
2. IoT PROTOCOLS- IoT Access Technologies: Physical and MAC layers, topology and Security of IEEE 802.15.4, 802.11ah and Lora WAN, Network Layer: IP versions, Constrained Nodes and Constrained Networks, 6LoWPAN, Application Transport Methods: SCADA, Application Layer Protocols: CoAP and MQTT.
3. DESIGN AND DEVELOPMENT- Design Methodology, Embedded computing logic, Microcontroller, System on Chips, IoT system building blocks IoT Platform overview: Overview of IoT supported Hardware platforms such as: Raspberry pi, Arduino Board details
4. Data Analytics: Introduction, Structured Versus Unstructured Data, Data in Motion versus Data at Rest, IoT Data Analytics Challenges, Data Acquiring, Organizing in IoT/M2M, Supporting Services: Computing Using a Cloud Platform for IoT/M2M Applications/Services, Everything as a service and Cloud Service Models.
5. CASE STUDIES/INDUSTRIAL APPLICATIONS: IoT applications in home, infrastructures, buildings.



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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	To understand the protocols of IoT and various network layers.	PO2, PO3	3
CO2	To use the hardware and software tools for the development of an IoT based product.	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: 06-02-2018

PROGRAM REPORT

Name of the Addon Course : Basics of Python

Day/Duration : 29-01-2018 – 03-02-2018 (36 HRS)

Time: 9.30 AM – 4.30 PM

Resource Person: Mr. Md.Ajmal, Datapro

Name of the Coordinator: Mr. D. Tilak Raju, Assistant Professor

Number of Participants: 66

Course Objectives:

1. To explain the basic concepts of Python Programming.
2. To summarize the python packages, installation procedures and standard libraries of Python.

Topics Covered: The following topics covered in this program

1. Introduction: History of Python, Need of Python Programming, Applications Basics of Python Programming Using the REPL(Shell), Running Python Scripts, Variables, Assignment, Keywords, Input-Output, Indentation.
2. Types, Operators and Expressions: Types - Integers, Strings, Booleans; Operators- Arithmetic Operators, Comparison (Relational) Operators, Assignment Operators, Logical Operators, Bitwise Operators, Membership Operators, Identity Operators, Expressions and order of evaluations Control Flow- if, if-elif-else, for, while, break, continue, pass
3. Data Structures Lists - Operations, Slicing, Methods; Tuples, Sets, Dictionaries, Sequences. Comprehensions, Functions - Defining Functions, Calling Functions, Passing Arguments, Keyword Arguments, Default Arguments, Variable-length arguments, Anonymous Functions, Fruitful Functions(Function Returning Values), Scope of the Variables in a Function - Global and Local Variables. Modules: Creating modules, import statement, from. Import statement, name spacing, Python packages, Introduction to PIP, Installing Packages via PIP, Using Python Packages.
4. Brief Tour of the Standard Library - Operating System Interface - String Pattern Matching, Mathematics, Internet Access, Dates and Times, Data Compression, Multithreading, GUI Programming, Turtle Graphics Testing: Basic concepts of testing, Unit testing in Python, Writing Test cases, Running Tests.





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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	To write program using Python language for solving simple/complex tasks.	PO5	3
CO2	To utilize the library functions for a specific application in coding.	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: 30-08-2017

PROGRAM REPORT

Name of the Addon Course : Fundamentals of Embedded System & its applications

Day/Duration : 21-08-2017 to 26-08-2017 (36 hrs)

Time: 9.30AM – 4.30 PM

Resource Person: Mr. Seshu Patnaik, Electropro

Name of the Coordinator: Mrs. Ch. Anitha Bhavani, Assistant Professor

Number of Participants: 64

Course Objectives:

1. To enable the students to understand embedded-system Programming and apply that knowledge to design and develop embedded solutions.
2. Identify hardware and software components to build an embedded systems

Topics Covered: The following topics covered in this program

1. Basic Knowledge of Embedded Systems: Layout model of Embedding System, Example of Embedded System, Embedded System for a Car, Components of Embedded System, embedded System Hardware, Features of an Embedded System,
2. Future of Embedded Processors, Languages for Programming Embedded Systems, Classifications of Embedded System. Real-time Embedded Systems, Stand Alone Embedded Systems
3. Network Embedded Systems, Mobile Embedded Systems, Medium Scale Embedded System, Sophisticated Embedded System, Embedded System Constraints, Applications of Embedded System.
4. Hardware in Embedded Systems, Programming concepts in Embedded C, Difference between C & Embedded C, Programming style, Basic structure of C program, Interfacing of LED, LCD, motors, sensor interfacing, Hands on session for real-time applications of embedded systems.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	To write program using Embedded C Programming language for solving simple/complex tasks.	PO5	3
CO2	To demonstrate an idea to develop a product by interfacing the sensors to the processor.	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: 30-08-2017

PROGRAM REPORT

Name of the Addon Course : Employment skills

Day/Duration : 21-08-2017 to 26-08-2017 (36 hrs)

Time: 9.30AM – 4.30 PM

Resource Person: Dr. T. V. Madhusudhan Rao, Professor

Name of the Coordinator: Mr. P. Sudhakar. Assistant Professor

Number of Participants: 65

Course Objectives:

1. To practice behavioural skills for improving their communication skills.
2. To discuss the IT fundamentals and various business models to encourage entrepreneur.

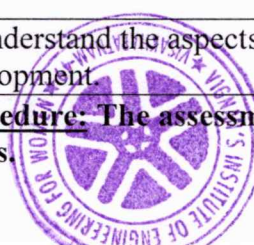
Topics Covered: The following topics covered in this program

1. Behaviour Skills: Instruction, modeling, rehearsal, and feedback, Written reminders or “aids” , oral instructional portion, answering questions, restating, performing part of the task to check for understanding non-exemplars and the consequences, English Literacy skills: fundamental language skills, How to improve speaking, reading and listening skills, practical sessions on speaking, reading through learning activities.
2. IT Literacy skills: Computer Fundamentals, Database Fundamentals, Basics of using a relational database to create tables, forms and reports, Digital Media Fundamentals, Internet Concepts, search engines, work with electronic mail (e-mail), and create Web pages with Microsoft FrontPage, Presentation Fundamentals, multimedia presentations.
Spreadsheet Fundamentals, Web Design Fundamentals, Word Processing Fundamentals
3. Entrepreneurship skills: Introduction To Entrepreneurship, Psychological Aspects of Entrepreneurship, The Theory Of Effectuation, Deep Diving Into The Entrepreneurial Process, Entrepreneurial Opportunity Recognition, Evaluation And Action, Business Models And Business Model Innovation, Protecting Intellectual Property.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	To develop cognitive skills demanded by the industry.	PO9, PO10	3
CO2	To understand the aspects of Entrepreneur initiatives and development	PO9, PO10, PO11, PO12	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: 30-08-2017

PROGRAM REPORT

Name of the Addon Course : System Design using MSP430 Microcontrollers

Day/Duration : 21-08-2017 to 26-08-2017 (36 hrs)

Time: 9.30AM-4.30PM

Resource Person: Mr. Seshu Patnaik, Electropro

Name of the Coordinator: Mr. P. Gopi Krishna, Assistant Professor

Number of Participants: 63

Course Objectives:

1. To explain the architectures of MSP 430 Processor, its internal structure, input/ output interconnections, and Hardware & Software tools.
2. To demonstrate the real-time applications and their features using MSP 430 .

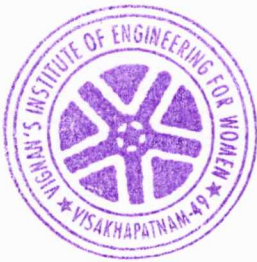
Topics Covered: The following topics covered in this program


1. MSP 430 processor architecture: MSP430: Features of MSP430 suitable embedded application, Different families and naming of MSP430, MSP430 Architecture: Data sheet reading of MSP430-TheOutside View— PinOut, The Inside View—Functional Block Diagram. Central Processing Unit: Program Counter (PC), Stack Pointer (SP), Status Register (SR), Constant Generators, General Purpose Registers, Memory, memory-Mapped Input and Output, Clock Generator, Exceptions: Interrupts and Resets Addressing Modes: Register Mode, Indexed Mode, Indirect Register Mode, Indirect Auto-increment Register Mode. Low-Power Modes of Operation of MSP430. Comparison of MSP430 and 8051 Architectures.
2. MSP 430 Instruction set: Classification-Constant Generator and Emulated instructions, Movement Instructions, Arithmetic and Logic Instructions with Two Operands, Shift and Rotate Instructions, Flow of Control instructions. Simple assembly language programs. Program development: Features of embedded C as applicable to MSP430, development environment, simple Embedded C
3. MSP430-GPIO, Timer and On-chip Peripherals: Digital Input-Output: Non Interruptible I/O and Interruptible I/O: Pin logic diagram Different Control Register, Port register Table. Timers: Classification of timers. Timer _A- Block diagram, Capture/Compare channels, interrupts and application notes. Watchdog Timer: Features and applications. Hardware Multiplier: Features and applications. LCD Driver: LCD Driver features


Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	To connect MSP 430 Processor to input and output devices for validation of the designed model.	PO3, PO4, PO5	3
CO2	To use MSP 430 for weather monitoring, green house monitoring etc. applications.	PO6, PO7, PO8	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: 27-12-2017

PROGRAM REPORT

Name of the Addon Course : Data structures and algorithms using java

Day/Duration : 18-12-2017 to 23-12-2017 (36 hrs)

Time: 9.30AM-4.30PM

Resource Person: Mr. Md.Ajmal, Datapro

Name of the Coordinator: Mrs. S. Malathi, Assistant Professor

Number of Participants: 60

Course Objectives:

1. To explain the basic concepts of data structures and algorithms using JAVA.
2. To discuss various sorting and searching algorithms.

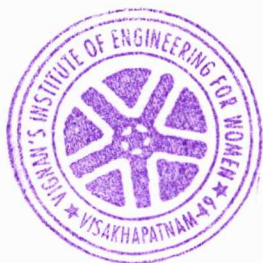
Topics Covered: The following topics covered in this program


1. Introduction to Data Structure, Arrays: Introduction to array, One dimensional primitive and non-primitive array, Multidimensional primitive and non-primitive array
2. Linked List: Introduction to LinkedList, Implementation of linked list, different Operation on Linked List, Traversing, Searching, Insertion, Deletion, Reverse, Circular Linked List and it's implementation, Doubly Linked List and it's implementation
3. Stack: Stack introduction, Array Implementation of stack, Push and pop operations on stack, Linked Implementation of stack, Applications of stack, Reversal of string, Balanced bracket problem, Infix to postfix conversion, Evaluating the postfix expression.
4. Queue: Introduction to Queue, Array Implementation of Queue, Linked Implementation of Queue, Types of queues, Circular queue, Priority queue, Dequeue,
5. Tree: Introduction to various tree, Binary Tree, Binary Search Tree, Strict Binary Tree, Complete Binary Tree, Extended Binary Tree, Balanced Tree, Implementation of Binary search tree, Traversal in Binary Search Tree, Preorder Traversal, Inorder Traversal, Postorder Traversal, Spanning tree, Minimum spanning tree, Prim's algorithm
6. Graph: Introduction to Graph, Undirected Graph, Directed Graph, Implementation of Graph, Traversal in Graph, Breadth First Search, Depth First Search, Shortest Path Algorithm (Dijkstra)
7. Sorting: , Various sorting Techniques and algorithms, Bubble Sort, Selection sort, insertion sort, quick sort, merge sort, Searching: Linear Search, Binary Search, Hashing


Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	To write program using JAVA language for solving simple/complex tasks.	PO5	3
CO2	To demonstrate the concepts of searching and sorting algorithms suitability for 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: 27-12-2017

PROGRAM REPORT

Name of the Addon Course : Scientific Imaging

Day/Duration : 18-12-2017 TO 23-12-2017 (36 HRS)

Time: 9.30AM-4.30 PM

Resource Person: Dr. Puvvada Ramesh, Rtd. Professor

Name of the Coordinator: Mr. K. Sridhar, Assistant Professor

Number of Participants: 58

Course Objectives:

1. To understand the basics of medical imaging modalities.
2. To discuss the methods of fusion for MRI-PET modalities.

Topics Covered: The following topics covered in this program

1. Introduction to the Science of Medical Imaging, scientific imaging principles, optimize imaging system, Acquisition, post processing and visualization. Segmentation, visual feature extraction, classification, quantitative measurements and Interpretation, Image Management.
2. Major biomedical imaging modalities, Principles of MRI, PET modalities, Image reconstruction, Signal Optimization, Complementary information capture from MRI & PET modalities and their characterization, Interpreting the data from images, fusion necessity
3. Basics of human and computer image analysis, Quantitative image analysis, Measurement, Technical validation, standard operating procedures, Regulatory issues, Examples

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	To discuss the principles of MRI, PET modalities.	PO4	3
CO2	To simulate the fusion methods in MATLAB for various medical analysis.	PO5, PO6	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: 27-12-2017

PROGRAM REPORT

Name of the Addon Course : Advanced Radar Systems

Day/Duration : 18-12-2017 TO 23-12-2017 (36 HRS)

Time: 9.30AM-4.30PM (36 HRS)

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

Name of the Coordinator: Mr. K. Rajendra Prasad, Assistant Professor

Number of Participants: 58

Course Objectives:

1. To explain the advanced concepts in RADAR systems.
2. To explain the characteristics of SAR, Beam forming and space-time adaptive processing.

Topics Covered: The following topics covered in this program

1. Radar Literature, Signal Models, components of a Radar Signal, Amplitude Models, clutter, Noise Model and Signal -to -Noise Ratio, Jamming, Frequency Models-The Doppler Shift, Spatial Models, Spectral Model.
2. Sampling and Quantization of Pulsed Radar Signals, Domains and Criteria for Sampling Radar Signals, Sampling in the Fast Time Dimension, Sampling in Slow Time – Selecting the Pulse Repetition Interval, Sampling the Doppler Spectrum, Sampling in the Spatial and Angle Dimensions, Quantization, I/Q Imbalance and Digital I/Q
3. Doppler Processing, Alternate Forms of the Doppler Spectrum, Moving Target Indication (MTI), PulseDoppler Processing, Pulse Pair Processing, Additional Doppler Processing Issues, Clutter Mapping and the Moving Target Detector, MTI for moving platforms
4. Introduction to Synthetic Aperture Imaging, Introduction to SAR Fundamentals, Stripmap SAR Data Characteristics, Stripmap SAR Image Formation Algorithms, Spotlight SAR Data Characteristics, the Polar Format Image Formation Algorithm for Spotlight SAR, Interferon metric SAR
5. Introduction to Beam forming and Space-Time Adaptive Processing- Spatial Filtering, Space-Time Signal Environment, Space Time Signal Modeling, Processing the Space Time Signal, Computational Issues in STAP, Reduce – Dimension STAP, Advanced STAP Algorithms and Analysis, Limitations to STAP



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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	To discuss the sampling, quantization process of Pulse Radar signals.	PO3, PO4	3
CO2	To understand the algorithms of adaptive signal processing.	PO3, PO4, PO5	3

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




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Date: 07-02-2018

PROGRAM REPORT

Name of the Addon Course: IT Essentials

Day/Duration : 29-01-2018 to 05-02-2018 – 35 Hrs

Time : 09:30AM to 04:30PM

Resource Person : Mr.G.Sridhar Reddy, Technical Lead, Siri Technologies, Hyderabad

Name of the Coordinator: Mr. N. K. Santosh, Asst. Prof, CSE

Number of Participants : 63

Course Objectives:

- To introduce the concept of Internet, Networks and its working principles.
- To understand various applications related to Information Technology.

Topics Covered: The following topics covered in this program

Course Outcomes:

1. Web Essentials :Creating a Website – Working principle of a Website – Browser fundamentals – Authoring tools – Types of servers: Application Server – Web Server – Database Server
2. Scripting Essentials - Need for Scripting languages – Types of scripting languages – Client-side scripting – Server-side scripting.
3. PHP – Working principle of PHP – PHP Variables – Constants – Operators – Flow Control and Looping
4. PHP Arrays – Strings – Functions – File Handling – PHP and MySQL – PHP and HTML – Cookies – Simple PHP scripts
5. Networking Essentials- Fundamental computer network concepts – Types of computer networks – Network layers – TCP/IP model – Wireless Local Area Network – Ethernet – Wi-Fi – Network Routing – Switching – Network components
6. Mobile Communication Essentials: Cell phone working fundamentals – Cell phone frequencies & channels – Digital cell phone components – Generations of cellular networks – Cell phone network technologies / architecture – Voice calls & SMS.
7. Application Essentials : Creation of simple interactive applications – Simple database applications – Multimedia applications – Design and development of information systems – Personal Information System – Information retrieval system – Social networking applications.

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Design and deploy web-sites.	PO3	2
CO2	Create simple database applications.	PO3	2
CO3	Describe the basics of networking and mobile communications.	PO4	3

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



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Date: 7-2-2018

PROGRAM REPORT

Name of the Addon Course: **Advances in Python Programming**

Day/Duration: 29-01-2018 to 05-02-2018 - 35 Hrs

Time: 09:30AM to 04:30PM

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

Name of the Coordinator: Mrs.K.Nasaramma, Dept of CSE.

Number of Participants: 63

Course Objectives:

- To understand the Object-oriented Concepts, Threads.
- To understand connect and working with Database.
- To build GUI using Libraries and Widgets.
- To understand the concepts python Libraries, plotting the graphs.

Topics Covered: The following topics covered in this program

1. Object-oriented Concepts- Class, Object, Method, Inheritance Polymorphism, Data Abstraction, Encapsulation, Decorators, Generators, Iterators
2. Threading in Python- Creation, Execution of threads using threading module.
3. Database programming using Python- Connecting to a database (SQLite) using Python Sending DML and DDL queries and processing the result from a Python Program.
4. GUI in Python- Introduction to GUI building libraries, Widgets- Button , Canvas , Check button , Frame ,Label , Menu ,Radio button ,Scrollbar , Text , Spin box ,Paned Window ,Label Frame.
5. Basic numerical processing using Python- Introduction to numpy, Matrix manipulation.
6. Basing data analysis using Python- Introduction to Pandas, Panda's data structures – Series and Data Frame.
7. Basic data visualization using Python -Introduction to Matplotlib, Scatter plot, Line plot, Bar chart.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Create, run and manipulate Database using Python.	PO5	3
CO2	Build GUI Using Libraries and widgets.	PO5	3

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



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PROGRAM REPORT

Name of the Addon Course: Data Structures and Algorithm using Python

Day/Duration: 29-01-2018 to 05-02-2018- 35 Hrs

Time: 09:30AM to 04:30PM

Resource Person: Dr.B.Prakash, Professor, Dept of CSE, VITS, Hyderabad

Name of the Coordinator: Mr. I. Raju, Assistant Professor, Dept of CSE.

Number of Participants: 62

Course Objectives:

- Implement Object Oriented Programming concepts in Python.
- Understand Lists, Dictionaries and Regular expressions in Python.
- Understanding how searching and sorting is performed in Python.
- Understanding how linear and non-linear data structures works.

Topics Covered: The following topics covered in this program

1. Data Structures – Definition, Linear Data Structures ,Non-Linear Data Structures Python Specific Data Structures: List, Tuples, Set, Dictionaries, Comprehensions and its Types, Strings, slicing.
2. Arrays - Overview, Types of Arrays, Operations on Arrays, Arrays vs List. Searching - Linear Search and Binary Search. Sorting - Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Quick Sort.
3. Linked Lists – Implementation of Singly Linked Lists, Doubly Linked Lists, Circular Linked Lists.
Stacks - Overview of Stack, Implementation of Stack, Applications of Stack.
4. Queues: Overview of Queue, Implementation of Queue, Applications of Queues, Priority Queues.
5. Graphs -Introduction, Directed vs Undirected Graphs, Weighted vs Unweighted Graphs, Representations, Breadth First Search, Depth First Search.
6. Trees - Overview of Trees, Tree Terminology, Binary Trees: Introduction, Implementation, Applications. Tree Traversals,
7. Binary Search Trees: Introduction, Implementation, AVL Trees: Introduction, Rotations, Implementation.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Examine Python syntax and semantics and apply Python flow control and functions.	PO2	2
CO2	Create, run and manipulate Python Programs using core data structures like Lists, Tuples.	PO3	3
CO3	Interpret the concepts of Object-Oriented Programming as used in Python.	PO4	3

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



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Date: 12-7-2017

PROGRAM REPORT

Name of the Addon Course : **Introduction to Python Programming**
Day/Duration : 04-7-2017 to 11-7-2017 -(7 Days) - 35 Hrs
Time : 09:30AM to 04:30PM
Resource Person : Dr.Srilakshmi Uppalapati, , Assoc Professor, Dept of CSE, VFSTR
Name of the Coordinator : Mrs. Y. Vineela Sravya, Asst. Prof, Dept of CSE.
Number of Students registered : 61
Number of Participants : 60

Course Objectives:

- Understand basic principles of computers.
- Understand basics of binary computation.
- Understand the programming basics (operations, control structures, data types, etc.).

Topics Covered: The following topics covered in this program

1. **Introduction:** Introduction to Python, Program Development Cycle, Input, Processing, and Output, Displaying Output with the Print Function, Comments,
2. Variables, Reading Input from the Keyboard, Performing Calculations, Operators. Type conversions, Expressions, More about Data Output.
3. **Data Types, and Expression:** Strings Assignment, and Comment, Numeric Data Types and Character Sets, Using functions and Modules.
4. **Decision Structures and Boolean Logic:** if, if-else, if-elif-else Statements, Nested Decision Structures, Comparing Strings, Logical Operators, Boolean Variables.
5. **Repetition Structures:** Introduction, while loop, for loop, Calculating a Running Total, Input Validation Loops, Nested Loops.
6. **Control Statement:** Definite iteration for Loop Formatting Text for output, Selection if and if else Statement Conditional Iteration The While Loop
7. **Strings and Text Files:** Accessing Character and Substring in Strings, Data Encryption, Strings and Number Systems, String Methods Text Files.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions.	PO3	2
CO2	Work with user input to create fun and interactive programs.	PO4	3

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



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Date: 12-7-2017

PROGRAM REPORT

Name of the Addon Course: AI for Everyone

Day/Duration: 04-7-2017 to 11-7-2017 -(7 Days) - 35 Hrs

Time: 09:30AM to 04:30PM

Resource Person: Mr.K.Bharadwaj, Technical Trainer, Amun Technologies, Visakhapatnam

Name of the Coordinator: Mr. A. N. Suresh, Dept of CSE.

Number of Participants: 62

Course Objectives:

- The basic principles, models and algorithms of AI to recognize, model, and solve problems in the analysis and design of information systems.
- The structures and algorithms of a selection of techniques related to searching, reasoning, machine learning, and language processing.

Topics Covered: The following topics covered in this program

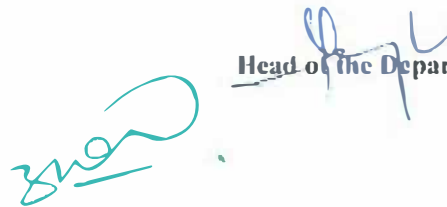
1. Introduction to Artificial intelligence: Introduction, history, intelligent systems, foundations of AI, applications, tic-tac-tie game playing, development of ai languages, current trends in AI
2. Problem solving: State-space search and control strategies: Introduction, general problem solving, characteristics of problem, exhaustive searches, heuristic search techniques, iterative deepening, constraint satisfaction.
3. Problem reduction and game playing: Introduction, problem reduction, game playing, alpha beta pruning, two-player perfect information games
4. Logic concepts: Introduction, propositional calculus, proportional logic, natural deduction system, axiomatic system,

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understand the applications and use cases of AI and how it is transforming our lives.	PO5	3
CO2	Describe several issues and ethical concerns surrounding AI.	PO3	2
CO3	Articulate advice from experts about learning and starting a career in AI.	PO6	3

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




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Date: 12.07.2017

PROGRAM REPORT

Name of the Addon Course : Introduction to Internet of Things

Day/Duration : 04-7-2017 to 11-7-2017 -(7 Days) - 35 Hrs

Time : 09:30AM to 04:30PM

Resource Persons : Mr. S.Mahesh Chandra , Head, IoT Division, Datapro Solutions

Name of the Coordinator : Mrs. D. Kamal Kumari, Asst. Prof, CSE

Number of Participants : 62

Course Objectives:

- Understand the definition and significance of the Internet of Things.
- Discuss the architecture, operation, and business benefits of an IoT solution.
- Examine the potential business opportunities that IoT can uncover.
- Explore the relationship between IoT, cloud computing, and big data.

Topics Covered: The following topics covered in this program

1. Introduction to IoT
2. Software Analysis and Tooling
3. Network, Linking & Loading
4. System Programming and OS Dependencies
5. Cloud Computing Services Cloud and IoT Integration.
6. IoT Data and the Cloud Week, Cloud Evolution
7. IoT applications

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Recognize the factors that contributed to the emergence of IoT.	PO2	2
CO2	Design and program IoT devices and protocols for communication.	PO3	3
CO3	Emphasize the elements of IoT devices to work with a Cloud Computing infrastructure.	PO5	2

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




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PROGRAM REPORT

Name of the Addon Course : Python Programming Essentials
Day/Duration : 04.12.2017 to 09.12.2017 (6 Days) - 42 Hrs
Time : 09:30AM to 04:30PM
Resource Person : Mr. S.Chandra Sekhar, CEO, Chandu Soft Technologies Pvt Ltd.
Name of the Coordinator : Mrs. K. Madhuri, Asst. Prof, Dept. of CSE
Number of Participants : 60

Course Objectives:

- This course will cover expressions, variables, functions, logic and conditionals, which are foundational concepts in computer programming.
- How to use Python modules, which enable you to benefit from the vast array of functionality that is already a part of the Python language can be known.
- These concepts and skills will help you to begin to think like a computer programmer and to understand how to go about writing Python programs.

Topics Covered: The following topics covered in this program


1. Introduction to Python, Uses of Python Programming Language / Python Applications, Python for Software development, Python for Networking.
2. Modes of Programming in Python, Interactive mode programming, Script mode programming, Creating Python program file, Python Identifiers, Python keywords, Lines and Indentation, Spilt Python statements, Join Python Statements, Writing code blocks, Comments in Python, and Quotation in Python.
3. Python keywords or Reserved words, Python keywords define the syntax and structure of the Python language, Python keywords are case sensitive, Python literals.
4. Implicit Declaration of Data Types, Python Numbers (Integers, floating-point numbers, and complex numbers), Python Strings, Python Boolean data type.
5. Modes of Programming in Python, Interactive mode programming, Script mode programming, Creating Python program file, Python Identifiers, Python keywords, Lines and Indentation, Spilt Python statements, Join Python Statements, Writing code blocks, Comments in Python, and Quotation in Python.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Learn Problem solving and programming capability.	PO5	3
CO2	To do projects with this emerging programming Language.	PO9	3

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




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Date: 11.12.2017

PROGRAM REPORT

Name of the Addon Course : Grid Computing
Day/Duration : 04.12.2017 to 09.12.2017 (6 Days) - 42 Hrs
Time : 09:30AM to 04:30PM
Resource Person : Mr.Siva Rama Krishna T, Asst Prof, Dept of CSE.
Name of the Coordinator : Mrs. M. Mamatha Laxmi, Asst.Prof, Dept of CSE.
Number of Participants : 61

Course Objectives:

1. The student will learn about the grid environment building software systems and components that scale to millions of users in modern internet.
2. The student will learn about grid concepts capabilities across various grid services.
3. The student will learn about grid security and resource management.

Topics Covered: The following topics covered in this program

- 1. Systems modeling, Clustering and virtualization:**
Scalable Computing over the Internet, Technologies for Network based systems, System models for Distributed and Grid Computing, Software environments for distributed systems and Grids.
- 2. Virtual Machines and Virtualization of Clusters and Data Centres:**
Implementation Levels of Virtualization, Virtualization Structures/ Tools and mechanisms, Virtualization of CPU, Memory and I/O Devices, Virtual Clusters and Resource Management, Virtualization for Data Center Automation.
- 3. Grid Platform Architecture**
Grid Computing and service Models, Architectural Design of Compute and Storage Grids, Public Grid Platforms, Inter Grid Resource Management, Grid Security and Trust Management.
- 4. Grid Programming and Software Environments**
Features of Grid and Grid Platforms, Parallel & Distributed Programming Paradigms, Programming Support of Google App Engine, Programming on Amazon AWS and Microsoft Azure, Emerging Grid Software Environments.
- 5. Grid Resource Management and Scheduling**
Policies and Mechanisms for Resource Management Applications of Control Theory to Task Scheduling on a Grid, Stability of a Two-Level Resource Allocation Architecture.
- 6. Coordination of Specialized Autonomic Performance:**
Managers, Resource Bundling, Scheduling Algorithms for Computing Grids, Fair Queuing, Start Time Fair Queuing, Borrowed Virtual Time, Grid Scheduling Subject to Deadlines, Scheduling MapReduce Applications Subject to Deadlines.



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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	Understanding the key dimensions of the challenge of Grid Computing.	PO4	3
CO2	Assessment of the economics, financial, and technological implications for selecting Grid computing for own organization.	PO11	3
CO3	Assessment of own organizations' needs for capacity building and training in Grid computing-related IT areas.	PO3	3

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




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PROGRAM REPORT

Name of the Addon Course : Big Data Analytics
Day/Duration : 04.12.2017 to 09.12.2017 (6 Days) - 42 Hrs
Time : 09:30AM to 04:30PM
Resource Person : Dr. K. Jayasri, Assoc. Prof., Dept. of CSE, LIET
Name of the Coordinator : Ms. D. Chandrika, Asst. Prof, CSE
Number of Participants: 50
Course Objectives:

1. To Understand the Big Data Platform and its Use cases
2. To Provide HDFS Concepts and Interfacing with HDFS

Topics Covered: The following topics covered in this program

1. **Data structures in Java:** Linked List, Stacks, Queues, Sets, Maps; Generics: Generic classes and Type parameters, Implementing Generic Types, Generic Methods, Wrapper Classes, Concept of Serialization.
2. **Working with Big Data:** Google File System, Hadoop Distributed File System (HDFS) – Building blocks of Hadoop (Namenode, Datanode, Secondary Namenode, JobTracker, TaskTracker), Introducing and Configuring Hadoop cluster.
3. **Writing MapReduce Programs:** A Weather Dataset, Understanding Hadoop API forMapReduce Framework (Old and New), Basic programs of Hadoop MapReduce: Driver code,Mapper code, Reducer code, RecordReader, Combiner, Partitioner.
4. **Hadoop I/O:** The Writable Interface, WritableComparable and comparators, **Writable Classes:**Writable wrappers for Java primitives, Text, BytesWritable, NullWritable, ObjectWritable and GenericWritable, Writable collections.
5. **Implementing a Custom Writable:** Implementing a RawComparator for speed, Custom comparators.
6. **Pig:** Hadoop Programming Made EasierAdmiring the Pig Architecture, Going with the Pig Latin Application Flow, Working through theABCs of Pig Latin, Evaluating Local and Distributed Modes of Running Pig Scripts.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of Mapping
CO1	Able to identify Big Data and its Business Implications	PO6	3
CO2	Able to access and Process Data on Distributed File System	PO7	3

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



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DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 18.12.2017

PROGRAM REPORT

Name of the Add-on Course: **Introduction to Internet of Things (IoT)**

Day/Duration: 09.12.2017 to 16.12.2017(7 Days) - 35 Hours

Time: 09:30AM to 04:30PM

Resource Person : Mr.Bharat Golagani, Brain O Vision

Name of the Coordinator: Mrs. S. Kalyani, Assistant Professor, Dept. IT

Number of Participants: 51

Course Objectives:

1. Understand the definition and significance of the Internet of Things.
2. Discuss the architecture, operation, and business benefits of an IoT solutions.
3. Examine the potential business opportunities that IoT can uncover.

Topics Covered: The following topics covered in this program

1. Introduction to IoT: Sensing, Actuation
2. Basics of Networking
3. Communication Protocols and Sensors Network
4. Interoperability in IoT and Arduino Programming
5. Introduction to python programming and implementation of IoT
6. SDN for IoT (contd), Data Handling and Analytics
7. Fog computing and connected vehicles Smart Grid

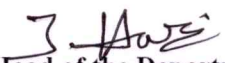
Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Able to explore IoT enabling technologies, architecture and standards.	PO3	3
CO2	Able to understanding of IoT protocol stack and fundamentals of Social IoTs.	PO2	3
CO3	Able to apply IoT knowledge to implement small-scale IoT Projects.	PO3	3
CO4	Able to identify, formula and solve engineering problems by using Industrial IoT.	PO2	3

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


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DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 13.02.2018

PROGRAM REPORT

Name of the Add-on Course: **Programming Essentials on Python**

Day/Duration: 05.02.2018 to 12.02.2018 (8 Days) - 40 Hours

Time: 09:30 AM to 04:30 PM

Resource Person: Mr. Hari Jyothula, Assistant Professor, VIEW

Name of the Coordinator: Mr. RVS RatnaKumar, Assistant Professor, Dept. of IT

Number of Participants: 49

Course Objectives:

1. Master the fundamentals of writing Python Scripts.
2. Write Python fundamentals to facilitate code reuse.
3. Make their code robust by handling errors and exceptions proper

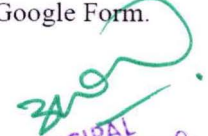
Topics Covered: The following topics covered in this program

1. Introduction to python, PDC, Input , Processing and Output
2. Data types, expressions: string assignment and Control statements
3. Conditional, Iteration, Strings and Text Files.
4. Design with Recursive Function and Modules
5. Data modeling Examples
6. Exception Handling
7. Coding Simple GUI-Based Programs

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Explain the basic principles of Python programming language.	PO2	3
CO2	Express proficiency in the handling of strings and functions	PO2	3
CO3	Implement object oriented concepts	PO3	3
CO4	Identify the commonly used operations involving file systems and regular expressions.	PO2	3

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


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DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 26.07.2017

PROGRAM REPORT

Name of the Add-on Course: **Fundamentals of Cloud Computing**

Day/Duration: 17.7.2017 to 24.07.2017 (7 Days) - 35 Hours

Time: 09:30AM to 04:30PM

Resource Person: Mr. S. Ram Prasad Reddy, Associate Professor, VIEW, Dept. of CSE

Name of the Coordinator: Mr. Alay Kumar Badhan, Assistant Professor, Dept. of IT

Number of Participants: 15

Course Objectives:

1. Define Cloud Computing and Explain essential characteristics, history, the business case for cloud and the emerging technologies enabled by cloud.
2. Describe the cloud service models, cloud development models and cloud infrastructure.

Topics Covered: The following topics covered in this program

1. Introduction to cloud computing and characteristics of CC
2. Cloud Computing Models.
3. Components of Cloud Computing
4. Emergent Trends and Practices.
5. Cloud Security, Monitoring and Case Studies.
6. Cloud Vitalization, Abstractions and Enabling Technologies.
7. Application Execution Models on Clouds

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, hybrid cloud..etc.	PO3	3
CO2	Explain the core issues of cloud computing such as security, privacy and interoperability.	PO2	3
CO3	Apply the appropriate technologies, algorithms and approaches for the related issues.	PO3	3

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

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Date: 04.12.2017

PROGRAM REPORT

Name of the Addon Course : **STATISTICAL TOOLS**
Day/Duration : 06-11- 2017 to 28-11- 2017- 40 Hours
Time : 03:00 PM to 05:00PM
Resource Person : DR. A.SRIDHAR, Associate Professor-GITAM.
Name of the Coordinator : Mrs.M.Sowjanya, Asst. Prof.
Number of Participants : 81

Course Objectives:

1. To enable the use of statistical, graphical and algebraic techniques wherever relevant.
2. To have a proper understanding of Statistical applications in Economics and Management

Topics Covered: The following topics covered in this program

1. Introduction to Statistical Tools
2. Measures of Central Tendency
3. Basic Statistics- Mean, Standard Deviation
4. Statistical Tests- Two sided Vs one sided test
5. Basic Statistics-Analysis of Variance (ANOVA)

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understand the have the basic knowledge on data collection and various statistical elementary tools.	PO2	3
CO2	Have the critical thinking in the theory of probability and its applications in real life problems.	PO4	3

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

M. Sowjanya
Coordinator



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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Date: 01.03.2018

PROGRAM REPORT

Name of the Addon Course	:	Tally ERP
Day/Duration	:	02.01.2018 – 28.02.2018 (20 Days) - 40 Hrs
Time	:	3.00 PM – 5.00 PM
Resource Person	:	Mr. P. Prabhakar, Programmer, Data Pro
Name of the Coordinator	:	Dr. S. Ramesh , HoD, Department of MBA
Number of Participants	:	64

Course Objectives:

1. It helps records all types of accounting that include invoicing, receipt notes, inventory management, sale records, credit note, etc.
2. The software helps record the complex book keeping in a simple way so that everyone can handle it easily.

Topics Covered: The following topics covered in this course

1. Fundamentals of Accounting.
2. Maintaining Chart of Accounts in Tally ERP.
3. Creating accounting masters, Maintaining Stock Keeping Units (SKU).
4. Recording Day-to-Day Transactions in Tally ERP 9, Accounts Receivable.
5. Payable Management, GST and Payrolls in Tally.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	This course helps students to work with well-known accounting software i.e. Tally. ERP.	PO3	3
CO2	Develop the students use the Tally software, that helps to prepare Accounting, Payroll, Billing, Sales and Profit Analysis, Auditing Banking Inventory, Taxation such as GST, VAT, TDS etc	PO3	3

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



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Department of Basic Sciences and Humanities

Date: 12.3.2018

PROGRAM REPORT

Name of the Add on Course: Basics of Computer Hardware and Networking

Day/Duration : 01.03.2018 to 09.03.2018 (6 Days) - 36 Hrs

Time: 09:30 AM to 04:30 PM

Resource Person: Mr. Bharat Golagani, Trainer, Brain O Vision.

Name of the Coordinator: Dr. R. Hanumantha Rao, Assoc Prof., Department of BS&H

Number of Participants: 48

Course Objectives:

1. To acquire the knowledge on hardware and networking devices.
2. To be aware of knowledge on the science of hardware and networking.
3. To train the officials to acquire basic knowledge in computer hardware and peripherals for installation, PC assembly, trouble shooting and maintenance including system management and its backup.
4. To undertake disaster prevention, a basic knowledge of TCP/IP networks work group, internet and intranet.

Topics Covered: The following topics covered in this program.

1. Introduction to basic electronics, subassembly of PC Subassembly of Motherboard, types of memory, familiarization with I/O cards, ports, connectors & cable and their identification. Build up of PC, Booting process, setting up of BIOS, CMOS errors, disk management Installation of Operating System, Dual booting systems.
2. Hardware Device Drivers & Application Software, System Maintenance Tools, Important commands, troubleshooting of PC. Upgrading of PC, Working of SMPS, troubleshooting related to it.
3. Communication over the network, Application layer functionality and protocols, Addressing the Network - IPv4, Ethernet, Planning and Cabling, Networks,. Configuring and Testing Your Network Introduction to Routing and Packet Forwarding, Static Routing,
4. Introduction to Dynamic Routing Protocols, Distance Vector Routing Protocols, RIP Version 1, The Routing Table : A Closer Look, EIGRP, Link-State Routing Protocols, LAN Design, Basic Switch Concepts and Configuration, VLANs, Inter-VLAN Routing, Introduction to WAN, Basic Wireless Concepts and Configuration, Point to Point Protocol, Frame Relay, Network Security, ACLs, IP Addressing Services, Network Troubleshooting
5. **Domain name Server (DNS):** Installing DNS, Configuring DNS, Maintaining and troubleshooting DNS, Configuring Advanced DNS Server parameters, Configuring DHCP to Support DNS. **DHCP:** Networking with TCP/IP, TCP/IP into the windows Model, IP Addressing, Understanding DHCP, DHCP Communication. **Active Directory Services:** Installing Active Directory, The Active Directory Installing Process, Examining the Default Structure of Active Directory, Performing Post Active

Directory Installation Task, Troubleshooting the Installing of Active Directory, Removing Active Directory.

6. **User management:** Understanding User Accounts and Groups, Assigning Rights on User & Group, Authentication, Authorization, and Auditing, Troubleshooting Domain User Accounts and Groups, Managing user profiles, Setting up disk Quotas, Group Policies management. **Microsoft Internet Information Server:** Introduction To IIS, HTTP vs HTML, Directory structures, Authentication, Administration to IIS. **Understanding Windows Registry:** Importing & Exporting Registry, Changing User & Computer Configuration, Changing Device Options & Settings

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Learn the proper techniques of maintenance of hardware and networking devices	PO2	3
CO2	Study the science of hardware and networking	PO1	3
CO3	Diagnose and repair all major problems regarding hardware, PC peripheral devices.	PO2	3
CO4	Apply the basic knowledge of TCP/IP networks work group, internet and intranet in real life.	PO1	3

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


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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 12.03.2018

PROGRAM REPORT

Name of the Addon Course : Indian Spiritual and Cultural Heritage

Day/Duration : 01.03.2018 to 09.03.2018 (6 Days) -36Hrs

Time: 09:30AM to 04:30PM

Resource Person: Ms. K. Lavanya, Asst Prof, Department of BS&H

Name of the Coordinator: Mrs. P. Varalakshmi., Asst Prof, Department of BS&H

Number of Participants: 44

Course Objectives:

1. To understand the concept and meaning of culture.
2. To be aware of establishment of the relationship between culture and civilization.
3. To discuss the role and impact of culture in human life.
4. To establish the link between culture and heritage.

Topics Covered: The following topics covered in this program

1. **Indian Culture:** Introduction to Characteristics of Indian culture, Significance of Geography on Indian Culture. Society in India through ages- Ancient period- varna and jati, family and marriage in india, position of women in ancient india, Contemporary period; caste system and communalism.
2. **Religion and Philosophy in India:** Ancient Period: Pre-Vedic and Vedic Religion, Buddhism and Jainism, Indian philosophy – Vedanta and Mimamsa school of Philosophy.
3. **Indian Languages and Literature:** Evolution of script and languages in India: Harappan Script and Brahmi Script. Short History of the Sanskrit literature: The Vedas, The Brahmanas and Upanishads & Sutras, Epics: Ramayana and Mahabharata & Puranas. History of Buddhist and Jain Literature in Pali, Prakrit and Sanskrit, Sangama literature & Odia literature.
4. **A Brief History of Indian Arts and Architecture:** Indian Art & Architecture: Gandhara School and Mathura School of Art; Hindu Temple Architecture, Buddhist Architecture, Medieval Architecture and Colonial Architecture. Indian Painting Tradition: ancient, medieval, modern indian painting and odishan painting.
5. **Performing Arts:** Divisions of Indian classical music: Hindustani and Carnatic, Dances of India: Various Dance forms, Classical and Regional, Rise of modern theatre and Indian cinema.
6. **Spread of Indian Culture Abroad:** Causes, Significance and Modes of Cultural Exchange - Through ~~Traders~~, Teachers, Emissaries, Missionaries and Gypsies, Indian Culture in South East Asia, India, Central Asia and Western World through ages.



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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	Describe the distinctive features of Indian culture.	PO6	3
CO2	Identify the central points and uniqueness of Indian culture.	PO12	3
CO3	Explain the points of diversity and underlying unity in culture and heritage.	PO6	3
CO4	Trace the influence and significance of geographical features on Indian culture.	PO12	3

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



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DEPARTMENT OF BASIC SCIENCES & HUMANITIES

Date: 17.08.2017

PROGRAM REPORT

Name of the Add-on Course: Machine Tools

Day/Duration: 08.08.2017 to 16.08.2017 (6 Days) - 36 Hrs

Time: 09:30 AM to 04:30PM

Resource Person: Dr.Ch. Ramakrishna, Associate Professor, VIEW

Name of the Coordinator: Mrs. T.S. Priya Darshini, Asst. Prof., Dept of BS&H

Number of Participants: 34

Course Objectives:

1. To train the students in the metal cutting domain so as to equip them with adequate knowledge about the various processes.
2. To emphasize upon the prominent theories, concepts and constructional features of machines related to them.

Topics Covered: The following topics covered in this program

1. Classify lathe, Capstan and turret lathes, Constructional features of capstan and turret lathe
Tool layout for lathe machine.
2. Shaping and Planning machines, Drilling Machines & Milling Machines.
3. Grinding Machines, Broaching, Lapping and Honing Machines.
4. The fundamentals of theory of metal cutting.
5. Non-traditional machining processes (NTM).

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Classify various metals cutting machines like lathe Describe various driving mechanisms of lathe.	PO1,PO3	3
CO2	Discuss the constructional features and the terminologies related to grinding, broaching and honing machines.	PO3,PO5	3



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DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

Date: 24.01.2018

PROGRAM REPORT

Name of the Addon Course: **Basics of Electrical and Electronics Engineering**

Day/Duration : 17/01/2018 to 23/01/2018 (6 Days) - 36Hrs

Time: 09:30AM to 04:30PM

Resource Person: Dr.P.A.Nageswara Rao, Professor, VIEW

Name of the Faculty Coordinator: Dr.G.V.Satyanarayana, Assoc Prof, Dept of BS&H.

Number of Participants: 58

Course Objectives:

1. Distinguish between linear and nonlinear elements by looking at VI characteristics.
2. Develop a simple loop generator.
3. Design a voltage regulator using Zener diode.
4. Design a half wave rectifier using PN junction diode.

Topics Covered: The following topics covered in this program

FUNDAMENTALS OF DC CIRCUITS: Circuit concepts, Concepts of network, Active and passive elements, Voltage and current sources, Concept of linearity and linear network.

FUNDAMENTALS OF A.C. CIRCUITS: Generation of A.C. voltage - Frequency, Average value, R.M.S. value, Form factor, Peak factor for sinusoidal only, Phasor representation of alternating quantities

DC MACHINES: Constructional details of a D.C. Machine, D.C. Generator, Principle of operation, EMF equation, Types of D.C. generators (simple numerical problems), D.C. Motor, Principle of operation,

SEMICONDUCTOR DEVICES: Classification of solids based on energy band theory, Intrinsic and Extrinsic semiconductors, P-type and N-type semiconductors, P-N junction diode and its characteristics

A.C MACHINES: Principle of operation of three phase induction motors, Slip ring and squirrel cage motors, Torque equation, Constructional details of synchronous machine.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Understand the notation and usage of components in electric circuits.	PO3	3
CO2	Analyze AC (single and three phase) and DC, AC circuits using different methods and laws.	PO1	3
CO3	Operate various electrical machines.	PO2	3
CO4	Understand the concepts of semiconductor devices and their operation.	PO4	3

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

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DEPARTMENT OF BASIC SCIENCES & HUMANITIES

PROGRAM REPORT

Date: 25/01/2018

Name of the Add-on Course: Race Gender & Workplace Equity

Day/Duration : 17/01/2018 – 23/01/2018 (6 Days) - 36Hrs

Time : 09:30AM to 04:30PM

Resource Person: Dr.V. Radhakrishna Murthy, Trainer, JCI

Faculty Coordinator: Mr. S. Bala Krishna, Asst Professor, Dept of BS&H

Number of Participants : 52

Course Objectives:

1. Understand the nature of Emotional Tax and its impact on underrepresented racial and ethnic groups, and identify actions to take to address racial inequities in your workplace and community
2. Understand gender equity, why it matters, and how to recognize and address gender equities in the workplace

Topics Covered: The following topics covered in this program

1. Learn in-demand leadership skills necessary to manage unconscious bias in your workplace.
Develop practical communication skills to mend divides and build a more tolerant and inclusive world.
2. understand the impact of racism and strategies and focusing on key concepts and behaviors, and skills you can develop to live anti-racist values.
3. Understand what gender equity, recognize and address gender inequity in the workplace
4. Identify actions you can take to address racial inequities in your workplace and community.
5. Explore what anti-racism and intersectionality mean and how they play a role in workplaces and society.

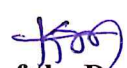
Course Outcome:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Develop an understanding of what unconscious bias is and its impact on decision-making and develop skills to recognize and take action to mitigate it.	PO7	3

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



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DEPARTMENT OF BASIC SCIENCES & HUMANITIES

PROGRAM REPORT

Date: 25/01/2018

Name of the Add-on Course: International Women's Health and Human Right

Day/Duration : 17/01/2018 – 23/01/2018 (6 Days) - 36Hrs

Time : 09:30 AM to 04:30 PM

Resource Person: Dr. Shiva Satya Narayana, Assoc Prof , JCI

Faculty Coordinator: Mr.K.Ramesh, Asst Professor, Dept of BS&H.

Number of Participants : 60

Course Objectives:

Consider the economic, social, political and human right factors and the challenges women face in maintaining health and managing their lives in the face of social pressures and obstacles.

Topics Covered: The following topics covered in this program

1. Adolescence & Vulnerability: Female genital cutting/mutilation, vulnerability to HIV/AIDS.
2. Reproductive Health and Rights: Early marriage and early child birth reproductive health, sexuality, maternity, contraception.
3. Women in war and refugee situations: The nature of current wars, forced migration, rape as a weapon of war, natural disasters.
4. Womens Quest to Escape poverty: Access to money and work globalization and its effects on women's work, sex trafficking and sex work.
5. Aging and the end of life: Aging demography, social exclusion and loss, women as caregivers.

Course Outcome:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	An interest in health and social justice, willingness to hear different points of view, and a commitment to positive social change.	PO7	3

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



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DEPARTMENT OF BASIC SCIENCES & HUMANITIES

PROGRAM REPORT

Date: 25/01/2018

Name of the Add-on Course: Seeking Women's Right

Day/Duration : 17/01/2018 – 23/01/2018 (6 Days) - 36Hrs

Time : 09:30AM to 04:30 PM

Resource Person: Dr.N.B. Harsha vardhan Reddy, Soft Skills Trainer, JCI.

Faculty Coordinator: Dr K Venakata Prasad, Assoc Professor, Dept of BS&H.

Number of Participants : 60

Course Objectives:

Relationship between race, class, and gender has impacted the kinds of work that different women do.

The ways in which women shaped and participated in the revolution, and what it meant for women.

Topics Covered: The following topics covered in this program

1. Account for the rise of the women's history as an academic field
2. Institutions and practices governed gender dynamics
3. How the ideologies of separate spheres and domesticity originated
4. progresses through the emergence of an industrial era, that will help to follow women from the home into the workplace
5. Influenced family life, power relationships within the family, and the ability for women to organize.
6. Examine the customs, cultures, and ideologies that governed women's lives in the early 19th Century.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	How women began their involvement in political activity and moral reform campaigns and how the rise of an independent movement for women's rights in the modern era came about.	PO8	3
CO2	Women's work as paid work influenced family life, power relationships within the family, and the ability for women to organize politically.	PO8	3

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



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DEPARTMENT OF BASIC SCIENCES & HUMANITIES PROGRAM REPORT

Date: 25/01/2018

Name of the Add-on Course Technical Report Writing For Engineers

Day/Duration : 17/01/2018 – 23/01/2018 (6 Days) - 36Hrs

Time : 09:30AM to 04:30PM

Resource Person: Dr. T. Radha Krishna Murthy, Professor, Dept of BS&H, VIEW

Faculty Coordinator: Dr B Chandra Sekhar Beera, Asst. Professor, Dept of BS&H, VIEW

Number of Participants : 57

Course Objectives:

1. Design and structure a document by analyzing and selecting the right information
2. Write clearly and in the correct style
3. Use correct language and grammar

Topics Covered: The following topics covered in this program


1. Defining the Features of Technical Writing, Principles and Strategies of Technical Report, Knowing Your Audience, Purpose and Length of Report
2. Format of a technical report
3. Writing styles & techniques
4. Style of Writing - Writing Clear Sentences, Remove Jargon, Redundancy & Wordiness
- Types of technical report
5. Presentation

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Explain what a good technical engineering report is and what they are used for.	P8, P10, P12	3, 3, 2
CO2	Evaluate what a good report looks like.	P8, P10	3, 3
CO3	Use a technical report to communicate information.	P8, P10, P12	3, 3, 3

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




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DEPARTMENT OF BASIC SCIENCES & HUMANITIES

Date: 25.1.2018

PROGRAM REPORT

Name of the Ad-on Course : Basics of Salesforce

Day/Duration : 17.01.2018 to 23.01.2018 (6 Days) - 36 Hrs

Time: 09:30AM to 04:30PM

Resource Person: Mr.P.Praveen Kumar, Assit. Prof, Dept of CSE VIEW.

Name of the Coordinator: Dr .V.R.S.S. Srikanth, Assoc. Prof. Dept of BS&H

Number of Participants: 60

Course Objectives:

1. To outline key marketing concepts and its application to different markets.
2. To identify factors and processes essential for designing marketing strategy.

Topics Covered: The following topics covered in this program

1. Marketing Management concepts, customer value and satisfaction, value chain, segmentation target positioning, corporate strategy concept.
2. Strategic business units, marketing environment, significance of macro environmental factors to marketing.
3. Market research, types of research and research barriers.
4. Dealing with competitors, Porter's competitive strategy, Marketing strategy.
5. Product life cycle, product levels, types of brands, corporate brand and product branding.

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Students will be able to identify the scope and significance of Marketing In Domain Industry.	PO9,PO11	3
CO2	Students will be able to coordinate the various marketing environment variables and interpret them for designing marketing strategy for business firms.	PO9,PO10	3



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DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

Date: 18-08-2017

PROGRAM REPORT

Name of the Add-on Course: Awareness on demandable programming languages

Day/Duration: 08-08-2017 to 16-08-2017 (06 days) 36hrs

Time: 09:30AM to 04:30PM

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

Name of the Coordinator: Mr. K. V.V. Ganeswara Rao, Assistant Professor, Dept. of BS&H

Number of Participants: 56

Course Objectives:

1. To impart the knowledge of the programming languages.
2. To provide an awareness on the programming languages on demand.

Topics Covered: The following topics covered in this program

1. Introduction to programming languages
2. Eligibility criteria to learn software programming languages
3. Programming languages for software development
4. Introduction to demandable programming languages like C, C++, Java, SQL, Python
5. Skills required for software computer programmers
6. Best programming languages for designing software

Course Outcomes:

COs	At the end of the course, the student will have the ability to:	POs Mapped	Strength of mapping
CO1	Use the skills required for software programmers	PO5	3
CO2	Use the best programming language for designing software	PO5	3
CO3	Use the most demandable programming language	PO5	3

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



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