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DEPARTMENT OF CSE

Date: 30.07.2022

Program Report

Name of the Event: Certificate Program on "Network Security And Cryptography"

Date/Duration: 11.07.2022 to 28.07.2022 / 16 Days

Resource Person Details: Dr.Y. Narasimha Reddy, Prof, SJCET.

Name of Coordinator: Mr. T. Abdul Raheem, Asst.Prof, SJCET.

Number of Students completed/enrolled: 60

Objective of Event:

1. Understand and Apply Fundamental Concepts of Cryptography.
2. Understand Requirements for Cryptography.
3. In data Sensitivity and Regulatory Requirements.
4. Operate and Implement Cryptographic System.
5. Cryptography Case Study.

Topics Covered:

1. Apply the fundamental concepts of cryptography
2. Describe the difference between symmetric and asymmetric cryptography
3. Define the basic requirements for cryptography
4. Identify processes to support secure protocols
5. Describe the process for implementing cryptographic systems
6. Describe the implementation of secure protocols

Outcome of Program:

1. Understand and Apply Fundamental Concepts of Cryptography.
2. Understand Requirements for Cryptography.
3. Understudied Operate and Implement Cryptographic System.
4. Done the Case Study Cryptography.

Program Coordinator

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DEPARTMENT OF CIVIL ENGINEERING

Date: 03.07.2022

Program Report

Name of the Event: A Certificate Program on Self-Healing Concrete

Date/Duration:20.06.2022-30.06.2022/ 10 DAYS

Resource Person Details:Mr. S. Sudheer Kumar

Name of Coordinator:Mr. C. Nagaraju

Number of Students completed/enrolled:25

Objective of Event:

- To address the challenges associated with the implementation of techniques
- To serve & to block the ingress of harmful substances, hence reducing the permeability and enhancing the durability and as well as aiding some recovery of structural strength.

Topics Covered:

- Self-healing strategies
- External repair methods
- Characterization techniques
- Self-healing modeling
- Impact of preventive repair on corrosion aspects.

Outcome of Program:

- The different self-healing techniques will be best suited to different applications and that will be necessary to clearly identify the damage mechanism.
- To reduce and removing the requirement for inspection, maintenance and repair of concrete structures.

Program Coordinator

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DEPARTMENT OF MECHANICAL ENGINEERING

Date:28.06.2022

Program Report

Name of the Event: A Certification Program on "Recent Innovations and Futuristic Scope for Research in Internal Combustion Engine"
Date/Duration:13.06.2022 to 25.06.2022 (2 Weeks)

Resource Person Details: Mr. K Nagaraju, Assistant. Professor, ME,Cell: 9885638377
Name of Coordinator: Mr. S Kamalesh Rao, Assistant Professor, ME, Cell: 9640114169

Number of Students completed/enrolled: 31/33

Objective of Event: To establish a pedestal for the integral innovation, team spirit, originality and competence in the students, expose them to face the global challenges and become technology leaders of Indian vision of modern society. To become a model institution in the fields of Engineering, Technology and Management.To impart holistic education to the students to render them as industry ready engineers.

Topics Covered: Introduction, Comparison of Air Standard and Actual Cycles, Time Loss Factor, Heat Loss Factor. I.C. ENGINES - Classification - Working principles, Valve and Port Timing Diagrams Combustion in C.I. Engines. Dynamic Compressors. Engine efficiency for reducing those emissions. Battery Electric Vehicles Vs Internal Combustion Engine Vehicles. Powder metallurgy supporting the move to eco-friendly.

Outcome of Program: To develop the knowledge of innovatives of Internal Combustion Engines. To develop the ability to create new methods of Internal Combustion Engines. To develop the ability to create a well designed engines and estimate the performance of Intenal Combustion engines.

Program Coordinator

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 21.06.2022

Program Report

Name of the Event:A Certified Program on PCB Design.

Date/Duration:05.06.2022 to21.06.2022/ 15 Days

Resource Person Details: Dr. K.Govindurajulu

Name of Coordinator: Mr. T Chakrapani

Number of Students completed/enrolled:60

Objective of Event:

- Introduction to PCB Design
- Compiling/Building the PCB

Topics Covered:

- PCB Design Guidelines
- Etching of PCB

Outcome of Program:

- Applications and Conclusion

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DEPARTMENT OF EEE

Date: 23.05.2022

Program Report

Name of the Event: Certificate Program on certificate program on Embedding sensors for electrical motors .

Date/Duration: (04.05.2022-21.05.2022)/ 15 days

Resource Person Details: Mr. K Siva Kumar Asst. Prof, in Dept. of Electrical and Electronics Engineering, BITS Adoni

Name of Coordinator: Dr. K. CHITHAMBARAIAHSETTY, Asso.Prof & HOD of EEE department.

Number of Students completed/enrolled: 31/31

Objective of Event: To Implement thermal sensors and Study sensor signal noise and apply proper hardware techniques to reduce it to acceptable levels.

Topics Covered:

- Introduction to concepts of Sensors and Sensor CircuitDesign
- Case study of design
- The ElectricalMotorsandMotorControlCircuits
- Different ideas of enbeddingsensor design

Outcome of Program:

- Implementation of embedded system in Pressure, Force, Motion, and Humidity Sensors
- The PID control function of the Cypress PSOC development kit for a motor control application.
- Get Idea in Manufacturing methods used to build electro-mechanical and micro-machined sensors.

Program Coordinator **HOD**

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DEPARTMENT OF MECHANICAL ENGINEERING

Date:03.05.2022

Program Report

Name of the Event: A Certification Program on "Introduction to Robot and Satellite Engineering"
Date/Duration:18.04.2022 to 30.04.2022 (2 Weeks)

Resource Person Details: Mr. M Ravi Sankara VaraPrasad, Assoc. Professor, ME,Cell: 9440958056
Name of Coordinator: Mr. K Nagaraju, Assistant Professor, ME, Cell: 8985804835

Number of Students completed/enrolled: 20/22

Objective of Event: The purpose of this course is to introduce you to basics of modeling, design, planning, and control of robot systems. In essence, the material treated in this course is a brief survey of relevant results from geometry, kinematics, statics, dynamics, and control. Robotics is the intersection of science, engineering and technology that produces machines, called robots, that replicate or substitute for human actions. Pop culture has always been fascinated with robots — examples include R2-D2, the Terminator and WALL-E.

Topics Covered: Introduction to robotics, classification of robots, workspace analysis. Manipulator Kinematics. Jacobians. Velocities and static forces. Linear and rotational velocity of rigid bodies. velocity propagation from link to link, jacobians. Trajectory Generation. Joint space schemes, collision free path planning, Robot programming Sensing and vision . Low level and high-level vision. Robot intelligence and task planning

Outcome of Program: To have knowledge of robots and satellite engineering. To develop the ability to create new robots and satellites. To develop the ability to create a well designed super fast robots. To develop the ability to make presentations on reports and designs created.

Nag
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DEPARTMENT OF EEE

Date: 26.04.2022

Program Report

Name of the Event: MECHINE LEARNING IN ELECTRICAL SYSTEMS

Date/Duration:(03.04.2022-24.04.2022)/15

Resource Person Details:Mr. C Vijay Kumar Asst.Prof, in Dept. of EEEBITS, Adoni

Name of Coordinator: Mr M.SHIVA KUMAR Asst. Prof of the EEE department

Number of Students completed/enrolled: 43/43

Objective of Event: To study the concept of mechine leaning from electrical systems

Topics Covered:

- The basic concepts of machine learning from a mathematics
- Initialization,Training&Validation,ParameterEstimation-MLE,MAP,BayesianEstimation
- BirchAlgorithm,CUREAlgorithm,Density-basedClustering
- Application of mechine learning

Outcome of Program:

- To study the LinearRegression,MultivariateRegression
- To get Idea on EnsembleMethods-Bagging,CommitteeMachinesandtacking,Boosting
- To cover the all area of mechine learningin electrical system

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DEPARTMENT OF CIVIL ENGINEERING

Date: 03.04.2022

Program Report

Name of the Event: A Certificate Program on Kinetic Roads

Date/Duration:21.03.2022-31.03.2022/ 10 DAYS

Resource Person Details:Dr. P. Lakshmaiah Chowdary

Name of Coordinator:Mr. E. Nathanielu

Number of Students completed/enrolled:20

Objective of Event:

- The development of a new system to convert the energy released by vehicles to the road pavement into electrical energy
- The electricity deficit in India is facing is acute and needs a full proof solutions to be implemented through alternative means.
- Roads are one of very few means which connect even the remotest part of this country.

Topics Covered:

- Energy harvesting in transportation infrastructures.
- Road pavement devices
- Road pavement energy harvesting device for speed reduction purposes
- Integration of a mechanical energy storage system in a road pavement energy harvesting hydraulic device

Outcome of Program:

- To know the Energy harvesting techniques in transportation infrastructures.
- How to generate the power from the kinetic roads

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DEPARTMENT OF CSE

Date: 28.03.2022

Program Report

Name of the Event: Certificate Program on "Green Cloud Computing"

Date/Duration: 07.03.2022 to 25.03.2022 / 16 Days

Resource Person Details: Mr. G. Vishwanath, Assot, Prof, SJCET.

Name of Coordinator: Mr. T. Abdul Raheem, Asst.Prof, SJCET.

Number of Students completed/enrolled: 56

Objective of Event:

This course will investigate Green Cloud of computers as a computing platform for distributed computing. By the end of the course, each student should understand specific hardware and software tradeoffs for Cloud and application performance, and the issues involved in deployment and programming of a Cloud of computers. Each student will complete a project based on Cloud computing and/or Cloud deployment and management. Course material will come from texts and assigned readings.

Topics Covered:

- A general introduction to the concept of Cloud based distributed computing.
- Hardware technologies for cloud computing, inclouding a survey of the possible node hardware and high-speed networking hardware and software.
- Software for cloud computing
- Software and software architectures for cloud computing, inclouding both shared memory (OpenMP) and message-passing (MPI/PVM) models
- MPI-2 extension, dynamic process creation, one-sided communication, parallel I/O.
- Linux for cloud, cloud monitoring.
- Performance evaluation tools, HINT, netperf, netpipe, ttcp, Iperf.
- Configuring and Tuning Clouds: This will involve evaluation of the performance of various nodes and networking hardware such as Gigabit Ethernet, Myrinet, Infiniband, Quadrics etc.

Outcome of Program:

- Each student will understand and complete a project based on Cloud computing and/or Cloud deployment and management.
- Each student should understand specific hardware and software tradeoffs for Cloud and application performance.
- Each student will get Course material will come from texts and assigned readings.

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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 22.02.2022

Program Report

Name of the Event: A Certification Program on "Heat Transfer and Computational Fluid Dynamics towards Industrial Applications"
Date/Duration:07.02.2022 to 19.02.2022 (Two Weeks)

Resource Person Details: Mr. S Kamalesh Rao, Assistant Professor, ME, Cell: 9640114169
Name of Coordinator: Mr. G Md Javeed Basha, Assistant Professor, ME, Cell: 9160241164

Number of Students completed/enrolled: 18/20

Objective of Event: To provide basic computational fluid dynamics towards industrial applications. To learn basic and advances in Mechanical Engineering and Informatics, applicable in practical life. To outline recent developments in industrial applications and management and their scopes. To contribute to the creation, transmission and application of knowledge. To do research and publications of international standard in inter-disciplinary areas.

Topics Covered: Introduction, properties and application of thermodynamics. Mathematical theorems, Helmoltz and Gibb's function, T-ds equations. Finite Difference Technique. Finite Volume Technique. Time integration Methods. Numerical Grid Generation. Turbulence modeling.

Outcome of Program: This course gives you hands-on training in CFD coding. After completing this course, students will be able to write simple solvers and turbulence models in MATLAB and Open FOAM framework. They will be able to perform CFD meshing in ANSA and simulate and solve advanced CFD problems in different fields using CONVERGE. This course enables them to understand and improve engine calibration, performance and emission using GT-POWER & GT-SUITE.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 22.02.2022

Program Report

Name of the Event:A Certified Program on 4G COMMUNIATIONS

Date/Duration:05.02.2022 to 22.02.2022/ 15 Days

Resource Person Details: Dr. K.Govindurajulu

Name of Coordinator: Mr. T Chakrapani

Number of Students completed/enrolled:60

Objective of Event:

- Mobile Communication Technologies classification
- Fourth-generation wireless Communication

Topics Covered:

- Features of 4G Communications
- Types of Mobile Communication

Outcome of Program:

- Challenges in Mobile Communication
- Future of Mobile Communication

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DEPARTMENT OF EEE

Date:19.03.2022

Program Report

Name of the Event: Certificate Program on "FUZZY LOGIC CONTROL"

Date/Duration:(02.03.2022-17.03.2022)/ 15days

Resource Person Details: Mr. B Parasuram Asst. Prof, in Dept. of Electrical and Electronics Engineering, BITS Adoni

Name of Coordinator: MrP.PEEDA REDDY, Asst. Prof of the EEE department

Number of Students completed/enrolled: 45/45

Objective of Event: To study and implementation of the fuzzy logic controlsystem

Topics Covered:

- Opportunities in fuzzy logic control system
- Case study of design IntroductionandFuzzySetsTheory
- Different ideas of fuzzy design
- How to learning of neural and fuzzy network

Outcome of Program:

- Visual and virtual Next level Process of Neuro-Fuzzy and Soft Computing
- Challenges faced by Fuzzifiers and Defuzzifiers
- The importance of SetTheoreticOperationsinFuzzyconstructionaltheory

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 27.01.2022

Program Report

Name of the Event:A Certified Program on NANO Technology

Date/Duration:19.01.2022 to 27.01.2022/ 07 Days

Resource Person Details: Dr. K.Govindurajulu

Name of Coordinator: Mr. T Chakrapani

Number of Students completed/enrolled:60

Objective of Event:

- Nanofabrication
- Nano Measurement And Characterization Tools: Transmission Electron Microscopy

Topics Covered:

- Nanofabrication
- Nano Technology
- Deep learning vs. machine learning

Outcome of Program:

- Nanotechnology For Missiles
- Nanotechnology Innovations

Program Coordinator

T. Chakrapani

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DEPARTMENT OF CIVIL ENGINEERING

Date:31.01.2022

Program Report

Name of the Event:A Certificate Program on 3D PRINTING

Date/Duration:18.01.2022-27.01.2022/ 08 DAYS

Resource Person Details:Mrs. Nandini

Name of Coordinator:Mr. E. Nathanielu

Number of Students completed/enrolled:20

Objective of Event:

- 3d printing or additive manufacturing service reduces the time and effort of the manufacturer to create a prototype
- To enhance the potential to be in every houseful used by students and professional from all walks of life
- Preparing for various 3d printing industries and its applications.

Topics Covered:

- Types of 3d printing processes
- CAD software's like RHINO, TINKER CAD, SOLIDWORKS, FUSION 360 basics.
- 3d printers & Scanners
- Materials for 3d printing & applications of 3d printing & other aspects.

Outcome of Program:

- Evolution of 3d printing
- Principles of 3d printing
- Technical skills involved in 3d printing & growth in industries using 3d printing

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DEPARTMENT OF CSE

Date: 07.02.2022

Program Report

Name of the Event: Certificate Program on "Artificial Intelligence: Implications for Business Strategy"

Date/Duration: 17.01.2022 to 03.02.2022 / 15 Days

Resource Person Details: Dr. P. Veeresh, Prof,SJCET.

Name of Coordinator: Mr. T. Abdul Raheem, Asst.Prof, SJCET.

Number of Students completed/enrolled: 45

Objective of Event:

What is artifcial intelligence (AI)? What does it mean for business? And how can your company take advantage of it? This online program, designed by the MIT Sloan School of Management and the MIT Computer Science and Artifcial Intelligence Laboratory (CSAIL), will help you answer these questions.

Topics Covered:

- An introduction to artificial intelligence.
- Machine learning in business.
- Natural language processing in business.
- Robotics in business.
- Artificial intelligence in business and society.
- The future of artificial intelligence.

Outcome of Program:

- Each student will understand and complete course based on Artifcial Intelligence and management.
- Each student should understand specific hardware and software tradeoffs for Artifcial Intelligence and application performance.
- Each student will get Course material will come from texts and assigned readings.

Program Coordinator

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DEPARTMENT OF CSE

Date: 30.08.2021

Program Report

Name of the Event: "Certificate Program on Foundation of Data Science"

Date/Duration: 05.08.2021 to 27.08.2021 / 20 Days

Resource Person Details: Mr V. DILIP KUMAR REDDY, Assit.Prof, PVKK, Tirupati

Name of Coordinator: Mr. T. Abdul Raheem, Assit.Prof, SJCET.

Number of Students completed/enrolled: 45

Objective of Event:

This in-depth Data Science certification program is designed for working professionals and covers job-critical topics like R, Python, Machine Learning techniques, NLP notions, and Data Visualization with Tableau, using an active learning model that includes live sessions from global professionals, practical labs, IBM Hackathons, and corporate ready projects.

Topics Covered:

Introduction: What is Data Science? Current landscape of perspectives.
Matrices to represent relations between data, and necessary linear algebraic operations on matrices. Evaluation of classification methods – Confusion matrix, Logistic Regression, Naive Bayes. Feature Selection algorithms – Filters; Wrappers; Decision Trees; Random Forests.

Outcome of Program:

Students will receive the following as part of this Data Science certification program, which is offered in conjunction with IBM:

- Simplilearn-Purdue university Joint Certification
- Industry recognized certificates from IBM (for IBM courses) and Simplilearn
- Purdue Alumni Association membership eligibility
- Lifetime access to all (the core) of the e-learning content created by Simplilearn
- Access to IBM Cloud platforms featuring IBM Watson and other cloud services

Program Coordinator

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DEPARTMENT OF CIVIL ENGINEERING

Date:11.07.2021

Program Report

Name of the Event: A Certificate Program on ETABS vs 19 Professional Training for 50 floor Tower

Date/Duration:10.06.2021-10.07.2021/27 DAYS

Resource Person Details: Mr. G. Chinna

Name of Coordinator: Mr. R. Tejanath

Number of Students completed/enrolled: 50

Objective of Event:

- To do step by step modeling, analysis & design of 50 floor tower
- For working in any modern innovative complex structures by using ETABS for analysis & design
- REVIT for Building Information Modeling

Topics Covered:

- Initiating a New Model for 50 floor tower
- Grid system, defining material element properties, cracked behaviour of elements
- Drawing structural elements in stages
- Drawing preparation for 50 floors & modeling techniques for 50 floor tower
- Defining & assigning loads by static & dynamic methods

Outcome of Program:

- The student will become expert I advance modeling, analysis & design using ETABS
- By ETABS training the student can design in a consulting perspective manner
- The student can do step by step modeling, analysis & design for any type of complex structures

R. Tejanath

Program Coordinator

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DEPARTMENT OF MECHANICAL ENGINEERING

Date:09.07.2021

Program Report

Name Of the Event:A Certification Program On"Fracture and Fatigue in Solid Mechanics"

Date/Duration:07.06.2021 to 06.07.2021 (1 Month)

Resource Person Details: Mr. K Kiran KumarM R, Assoc. Professor, ME, Cell:9440035205

Name of Coordinator: Mr. K Nagaraju, Assistant Professor, ME, Cell: 9110782575

Number of Students completed/enrolled: 54/55

Objective of Event:The course provides the basic aspects of Engineering Fracture Mechanics. Develop necessary artistic skills required for the engineer to make communications with the industrial designers.Thepurpose of this program istointroduceto the undergraduate student the fundamental principles of Engineering Design which is very important and relevant in the context of todays engineering professionals.

Topics Covered: Overview of Engineering Fracture Mechanics, Conventional design methodologies, List of spectacular failures, Fracture – Bane or boon? Common applications of fracture/fracture prevention, Strain energy in the presence of a crack by relaxation analogy, Difficulties in Griffith's theory, Necessary and sufficient conditions for fracture, Simply connected and multiply connected domains,Airy's stress function, Semi-inverse method,Cauchy-Riemann conditions, Airy's stress function for Mode-I, Multi-parameter stress field equations, Approximate plastic zone shapes in plane strain and plane stress for Mode-I and Mode-II loadings

Outcome of Program:After taking this course, the students will be able to: 1. Understand key concepts related to mechanics of fracture of both elastic and inelastic materials. 2. Apply fracture and fatigue concepts for design of structural components. 3. Will be able to pursue research in the areas of Fracture and Fatigue.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 28.01.2021

Program Report

Name of the Event:A Certified Program on Deploying Deep Learning Networks to Embedded GPUs and CPUs

Date/Duration:28.12.2020 to 28.01.2021/ 27 Days

Resource Person Details: Dr. K.Govindurajulu

Name of Coordinator: Mr. S.Ahmed Basha

Number of Students completed/enrolled:73

Objective of Event:

- High-level language Deep learning framework
- Deep learning methods

Topics Covered:

- How Does Deep Learning Work?
- How Do Neural Networks Work?
- Deep learning vs. machine learning

Outcome of Program:

- Target-optimized libraries Optimize for memory & speed
- Deployment integration-test

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DEPARTMENT OF EEE

Date: 14.01.2021

Program Report

Name of the Event: Certificate Program on "power system & solar panel ".

Date/Duration:(12.12.2020-14.01.2021)/28

Resource Person DetailsMr.CMahesh Babu, Asst. Prof, in Dept. of EEE, BITS, Adoni.

Name of CoordinatorMr P peddareddy,Asst.Prof of the EEE department

Number of Students completed/enrolled: 33/33

Objective of Event:The technology to convert sunlight into electricity, Solar Renewable Energy Credits (SRECs) and market mechanism.

Topics Covered:

- **S**olar Photovoltaic (PV) panels and construction
- Mainstream technologies for solar panels
- List of solar thermal power stations, List of energy storage projects, and
- List of photovoltaic power stations
- Solar cell efficiencies of laboratory-scale devices

Outcome of Program:

- Grid integration , combination of grid interconnections, energy storage or demand side management.
- Energy pricing and incentives and incentive mechanisms

Program Coordinator

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DEPARTMENT OF CSE

Date: 21.01.2021

Program Report

Name of the Event:"Certificate Program on Artificial Neural Networks Deep Learning"

Date/Duration: 23.12.2020 to 18.01.2021 / 20 Days

Resource Person Details: Mr. P. Ramesh Rao, Assot.Prof, PVKK, Ananthapur.

Name of Coordinator: Mr. T. Abdul Raheem, Asst.Prof, SJCET.

Number of Students completed/enrolled: 41

Objective of Event:

- Understand generic machine learning terminology
- Understand motivation and functioning of the most common types of deep neural networks
- Understand the choices and limitations of a model for a given setting
- Apply deep learning techniques to practical problems.
- Write reports in which results are assessed and summarized in relation to aims, methods and available data

Topics Covered:

- Intro to machine learning and neural networks.
- Neural networks.
- Convolutional Neural Networks.
- Recurrent Neural Networks
- Final project

Outcome of Program:

- Deep learning, unlike traditional machine learning and data mining algorithms, can produce extremely high-level data representations from enormous amounts of raw data.
- As a result, it has provided an excellent solution to a variety of real-world problems.
- A successful deep learning technique must possess the relevant data-driven modeling depending on the characteristics of raw data.

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DEPARTMENT OF MECHANICAL ENGINEERING

Date:21.01.2021

Program Report

Name Of the Event:A Certification Program On"Advancements and Current Trends of Mechanical Engineering"

Date/Duration:14.12.2020 to 18.01.2021 (1 Month)

Resource Person Details: Mr.U Y Suresh babu, Assistant Professor, ME, Cell:9703027519

Name of Coordinator: Mr. A Naresh Kumar, Assistant Professor, ME, Cell: 9966642416

Number of Students completed/enrolled: 52/55

Objective of Event:To provide basic and advances in Mechanical Engineering and Informatics, applicable in practical life.To outline recent developments in industrial engineering and management and their scopes.To contribute to the creation, transmission and application of knowledge.To do research and publications of international standard in inter-disciplinary areas.

Topics Covered: Interconnected Machines, Internet of Things, Digital Manufacturing, Bio-Medical Engineering, Green Manufacturing, Nano-Technology, Mechatronics, Smart Materials/Composites, Automation and Intelligent System, CAD CAM Sustainability, Manufacturing Optimization, Cryogenics, 4D Printing Technology, Beamed Energy Propulsion, Autonomous Vehicle, High-Speed Machining, Stir Friction Welding, Advances in Heating, Ventilation and Air Conditioning.

Outcome of Program:Thetheory, practical experiences and relevant soft skills associated with this program are to be taught and implemented, so that the student demonstrates the following:

a. Can learn different machineries in industry.
b. Identify different new systems available in automobile.
c. Apply heat engineering principles in process boilers and waste heat recovery systems used in process industry
d. Cite examples of modern manufacturing technology in industry
e. Use different standards for energy management and audit of a given system

Program Coordinator

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DEPARTMENT OF CIVIL ENGINEERING

Date: 02.01.2021

Program Report

Name of the Event: A Certificate Program on Structural Design of Hydraulic Precast Buildings Using ETABS

Date/Duration:05.12.2020-31.12.2020/ 22 DAYS

Resource Person Details: Mr. S. Sudheer Kumar

Name of Coordinator: Mr. C. Nagaraju

Number of Students completed/enrolled: 45

Objective of Event:

- To model a Building by using ETABS
- Element design of structural members
- Connection design of precast connections like sketches
- Complete calculation report of the Building.

Topics Covered:

- Basic introduction for codes, inputs, software.
- Concept design for precast members.
- Force calculations & Load combinations, strength, serviceability parameters, progressive collapse of elements
- Behaviour & Analytical model for the precast building in ETABS
- Foundation design of the building & various precast elements design & connections.

Outcome of Program:

- Interpretation of framing plans to develop the analytical model
- Preparation of analytical model in ETABS Geometry, loads & analyzing the structural behaviour of the model
- Checking the deflections, reaction uplift, story drifts in analytical model
- Element design of every structural member & design for precast connections

Program Coordinator

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 28.07.2020

Program Report

Name of the Event:A Certified Program on Wireless Internet-of-Things(IoT) Communication Trends

Date/Duration:27.06.2020 to 28.07.2020/ 27 Days

Resource Person Details: Mr. I.V.Rameswara Reddy

Name of Coordinator: Mr. T Chakrapani

Number of Students completed/enrolled:73

Objective of Event:

- Evolutionary algorithm for the optimization of wireless networks
- Emerging technologies in wireless communication industry – demystifying LoRa WAN

Topics Covered:

- Visions, Applications and Challenges of the IoT
- Growing Use Of Software-Defined Radio Technologies

Outcome of Program:

- State-of-the-art reviews on future communication trends and IoT
- An IoT protocol implementation on wireless sensor network

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DEPARTMENT OF EEE

Date: 06.07.2020

Program Report

Name of the Event: Certificate Program on "Electric Vehicel s".

Date/Duration:(07.06.2020-06.07.2020)/26

Resource Person Details:Mr. C Vijay,Asst. Prof, in Dept. of EEE, BITS, Adoni.

Name of CoordinatorMr K chitambaraiahSetty, Asso.Prof and HOD of the EEE department

Number of Students completed/enrolled: 33/33

Objective of Event:Electricity sources for electric vehicles,The benefits and discusses control schemes of the cascade inverter for use as an EV motor drive

Topics Covered:

- .Key Components of an All-Electric Cars and working principle
- Electricity sources for electric vehicles
- Charging stations for electric vehicles
- Lithium-ion battery , development and prices

Outcome of Program:

- Fundamental frequency switching, electromagnetic interference (EMI) and common-mode voltage
- Other in-development technologies, Safety, Environmental

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DEPARTMENT OF MECHANICAL ENGINEERING

Date:20.01.2020

Program Report

Name Of the Event:A Certification Program On"Aircraft Design and Control Engineering"

Date/Duration:16.12.2019 to 18.01.2020 (1 Month)

Resource Person Details: Mr.S M Girish Kumar, Assistant. Professor, ME,Cell:9113280166

Name of Coordinator: Mr. Vijayendra Kukanur, Assistant Professor, ME, Cell: 9611689099

Number of Students completed/enrolled: 52/55

Objective of Event: Students can learn: Calculate jet and propeller driven airplane performance (takeoff/landing distance, range, endurance, climb, maneuver). Perform conceptual airplane and propulsion sizing estimates to meet specified operational and performance requirements.

Topics Covered: Phases of the design process. Conceptual Design, Preliminary Design, Detailed Design. Typical program organization and personnel responsibilities.Role of the aircraft designer. Major differences between manned and unmanned air vehicle design. Basic aircraft terminology and conventions, Coordinate systems, forces and moments, aerodynamic coefficients.Aircraft weight breakdown and definitions. Basic aircraft performance terminology (flight in the horizontal and vertical planes).Aircraft sizing o Factors influencing aircraft configuration, size and weight o Weight breakdown o Historical weight data. Landing gear type and placement (tail dragger, tricycle, tandem), Airfoil selection, Packaging for storage/transport

Outcome of Program: This course is designed to provide students an understanding of procedure followed in conceptual design of an aircraft, meeting the user-specified design requirements and safety considerations specified by the aircraft certification agencies.

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DEPARTMENT OF EEE

Date: 06.01.2020

Program Report

Name of the Event: Certificate Program on "Electrical Design and Analysis".

Date/Duration:(04.12.2019-06.01.2020)/29

Resource Person Details: Mr. C Mahesh Babu Asst. Prof, in Dept. of EEE, BITS, Adoni.

Name of CoordinatorMr S ShamshulHaq Asst.Prof ,SJCET

Number of Students completed/enrolled: 27/27

Objective of Event:The importance of stability and maintaining the power quality of the electricity transmission and distribution

Topics Covered:

- The Development of Electric Power Systems.
- Power System Representation, Power Generation and the Synchronous Machine.
- SHORT CIRCUIT ANALYSISANDVOLTAGE DROP CALCULATIONS
- Design for Manufacturing and Design for Testing.

Outcome of Program:

- Knowledge in implementing EMI/EMC methods for electrical wiring design.
- Design for Manufacturing and Design for Testing.
- The evolved form of all electrical engineering software PSCAD

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date:02.01.2020

Program Report

Name of the Event:A Certified Program on Recent trends in VLSI & Embedded System Design

Date/Duration:02.12.2019 to 02.01.2020/ 27 Days

Resource Person Details: Dr. Y.Mallikarjuna

Name of Coordinator: Mr. C Bhargav

Number of Students completed/enrolled:59

Objective of Event:

- Patterns insight from the applications of embedded systems in real life.
- Embedded Systems Vs VLSI – An Analysis

Topics Covered:

- Scope in Embedded Systems and VLSI
- Classification of Power Consumption in VLSI

Outcome of Program:

- Which is a better careers option- Embedded Systems or VLSI
- Understand the typical components of an embedded system

Program Coordinator

C Bhargav

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DEPARTMENT OF CSE

Date: 31.12.2019

Program Report

Name of the Event: "Certificate Program on Hadoop and Big Data"

Date/Duration: 02.12.2019 to 28.12.2019 / 23 Days

Resource Person Details: Mr. V. Chandra Sekhar, Assot.Prof, SVCE, Tirupati.

Name of Coordinator: Mr. T. Abdul Raheem, Asst.Prof, SJCET.

Number of Students completed/enrolled: 41

Objective of Event:

- Get a deeper knowledge of various Big Data frameworks
- Hands-on learning on Big data Analytics with Hadoop
- Projects related to banking, governmental sectors, e-commerce websites, etc
- Learn to extract information with Hadoop MapReduce using HDFS, Pig, Hive, etc.

Topics Covered:

1. What is Big Data. The core technologies of Hadoop.
2. How Hadoop Distributed File System(HDFS) and MapReduce work.
3 What other projects exist in the Hadoop ecosystem.
4. How to develop MapReduce jobs. Algorithms for common MapReduce tasks.
5. How to create large workflows using multiple MapReduce jobs.
6. Best practices for debugging Hadoop jobs.

Outcome of Program:

Now students have understood the five 'V's of Big Data, Big Data case study, challenges of Big Data, and some of the solutions too, it's time scale up their knowledge and become industry ready. Big Data Hadoop Training Course will help students to master Big Data and Hadoop Ecosystem tools such as HDFS, YARN, MapReduce, Hive, Impala, Pig, HBase, Spark, Flume, Sqoop, and Hadoop Frameworks, and learn the critical concepts of data processing

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DEPARTMENT OF CIVIL ENGINEERING

Date: 02.01.2020

Program Report

Name of the Event: A Certificate Program on Introduction to Seismic Rehabilitation of Building

Date/Duration:02.12.2019-30.12.2019/25 DAYS

Resource Person Details: Mr. S. Tanveer Hussain

Name of Coordinator: Mr. E. Nathanielu

Number of Students completed/enrolled: 45

Objective of Event:

- To modify the existing structure to make it more resistant to earthquake
- To undergo studies & learn about the design of buildings rather than maintaining the existing structure
- To know the basic concepts about Seismic rehabilitation of Reinforced Concrete Building assigned as Rehabilitation project

Topics Covered:

- Base Isolation, Tuned Mass Damper TMD
- Carbon Fibre Reinforced Polymer Wrapping CFRP
- Steel Jacketing, adding new structural elements & supplementing Dampers
- Slosh tanks

Outcome of Program:

- The student can do comparison between these methods per project basis
- By this comparison student can decide when to use this or that method for a specific project

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 27.07.2019

Program Report

Name of the Event:A Certified Program on Deep Learning Applications-A Trend in Embedded Systems

Date/Duration:27.06.2019 to 27.07.2019/ 27 Days

Resource Person Details: Dr. K.Govindurajulu

Name of Coordinator: Mr. B Venkatesh

Number of Students completed/enrolled:59

Objective of Event:

- Choosing an embedded processor for machine learning
- Training and inference
- Review on Backpropagation.

Topics Covered:

- The Journey of Machine Learning
- Basics of Artificial Neural Networks.
- Fundamentals of TinyML

Outcome of Program:

- How to use machine learning to make decisions and predictions in an embedded system
- How to deploy a machine learning model to a microcontroller

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DEPARTMENT OF MECHANICAL ENGINEERING

Date:20.07.2019

Program Report

Name Of the Event:A Certification Program On"Application of Design Software: Solid works in Industry"
Date/Duration:17.06.2019 to 16.07.2019 (1 Month)

Resource Person Details: Mr.S Junaid, Assistant. Professor, ME,Cell:7569829539

Name of Coordinator: Mr.N Pradeep Kumar, Assistant Professor, ME, Cell: 9490415417
Number of Students completed/enrolled:51/55

Objective of Event:There are two aspects to the course: i. Gaining a working knowledge of CAD solid modeling (SolidWorks) ii. Theoretical concepts of engineering graphics, including orthographic projection, auxiliary views and sectioning, general dimensioning and tolerancing, and geometric dimensioning and tolerancing.

Topics Covered: SolidWorks Graphical User Interface - Feature manager design tree.Sketch Tools, Blocks, Relations, Dimensions.Part modeling- Part Modeling Tools, Extrude, revolve, swept. Assembly Modeling.Manipulating Components,Surface Modeling,Product data management,PhotoWorks, Weldment Design, Mold Design,Data Migration, Direct editing, Simulation Express, Solid works advance.

Outcome of Program:Demonstrate competency with multiple drawing and modification commands in SolidWorks.Creating three-dimensional solid models.Creating three-dimensional assemblies incorporating multiple solid models.Applying industry standards in the preparation of technical mechanical drawings.

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DEPARTMENT OF CIVIL ENGINEERING

Date: 11.07.2019

Program Report

Name of the Event: A Certificate Program on CSI SAP 2000 Structural Analysis Program for Beginers.

Date/Duration: 10.06.2019-10.07.2019/ 27 DAYS

Resource Person Details:Mr. M. Mujahid Ahmed

Name of Coordinator:Mr. R. Tejanath

Number of Students completed/enrolled:40

Objective of Event:

- To do analysis & design of structural elements like Beams, Columns, Slabs, cables, Shells etc.
- To perform basic analysis like Shear force & Bending Moment calculations by using Time History Analysis & Dynamic History Analysis.

Topics Covered:

- Introduction to Structural Analysis Program SAP 2000 by Grid System
- Drawing the Beams & applying the point & Uniformly Distributed Loads & finding the Shear force & Bending Moment Calculations with diagrams.

Outcome of Program:

- The students able to draw & analyze Beams, Frames of 2D, 3D & other complex structures using SAP 2000
- The student can understand the different load combinations & patterns, perform modal analysis on 2D, 3 D frames

R. Tejanath
Program Coordinator

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DEPARTMENT OF CSE

Date: 05.07.2019

Program Report

Name of the Event: Certificate Program on "Deep Learning Applications"

Date/Duration: 10.06.2019 to 03.07.2019 / 21 Days

Resource Person Details: Mr. P. Dilip Kuamr Reddy, Assot. Prof, SVCE, Tirupati.

Name of Coordinator: Mr.T. Abdul Raheem, Assit.Prof, SJCET.

Number of Students completed/enrolled: 51

Objective of Event:

1. understand complexity of Deep Learning algorithms and their limitations

2. understand modern notions in data analysis oriented computing;

3. be capable of confidently applying common Deep Learning algorithms in practice and implementing their own.

Topics Covered:

1. Introduction to TensorFlow, Artificial Neural Networks.

2. Gradient Descent and Backpropagation, Optimization and Regularization.

3. Introduction to Convolutional Neural Networks, Introduction to Recurrent Neural Networks.

4. Deep Learning applications

Outcome of Program:

1. Understand the concepts of TensorFlow, its main functions, operations and the execution pipeline

2. Troubleshoot and improve deep learning models Build own deep learning project.

3. Differentiate between machine learning, deep learning and artificial intelligence

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DEPARTMENT OF EEE

Date: 10.07.2019

Program Report

Name of the Event: Certificate Program on "integrated of renewable resources for solar & wind farms ".

Date/Duration:(08.06.2019-10.07.2019)/32

Resource Person Details: Mr. S Syed Saheb Asst. Prof, in Dept. of EEE, BITS, Adoni.

Name of CoordinatorMr M Siva Kumar Asst.Prof ,SJCET

Number of Students completed/enrolled: 41/41

Objective of Event:Generating electricity using renewable energy resources andBalance electricity supply and demand on the power grid

Topics Covered:

- Renewable energy systems, solar, wind, hydro, biomass, geothermal.
- Global Energy Technologies, Smart green technologies
- Power output from renewable sources depends on variable natural resources
- Electrical energy demand model, the energy generation

Outcome of Program:

- power conversion stage and integrated with the existing control
- The way for a low carbon future, but the impacts of their intermittency on the existing grid system

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date:04.02.2019

Program Report

Name of the Event:A Certified Program on Tools For Preprocessing And Analyzing Data, Writing Scripts And Algorithms In MATLAB

Date/Duration:31.12.2018 to 04.02.2019/ 27 Days

Resource Person Details: Mr G.Nagaraju

Name of Coordinator: Mr. C.Bhargav

Number of Students completed/enrolled:50

Objective of Event:

- Preprocessing And Analyzing Data, Writing Scripts And Algorithms In MATLAB
- Smoothing Data and Finding Trends
- Grouping and Binning Data
- Data Import and Export
- Clean Messy and Missing Data in Tables

Topics Covered:

- Large Files and Big Data
- Descriptive Statistics
- Toolbox Distribution
- Debugging and Analysis
- Programming Utilities

Outcome of Program:

- Graphics Objects
- 2-D and 3-D Plots
- Graphics Performance

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DEPARTMENT OF CSE

Date: 14.01.2019

Program Report

Name of the Event: "Certificate Program on Web Designing"

Date/Duration: 13.12.2018 to 10.01.2019 / 22 Days

Resource Person Details: Mr. P. Ramesh Rao, Assot.Prof, PVKK, Anantapur.

Name of Coordinator: Mr. T. Abdul Raheem, Assit.Prof, SJCET.

Number of Students completed/enrolled: 51

Objective of Event:

- Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.
- Become familiar with graphic design principles that relate to web design and learn how to implement theories into practice.
- Develop skills in analyzing the usability of a web site.

Topics Covered:

1. Introduction to Web Design, Web Design Principles

2. Introduction to HTML

3. Introduction to Cascading Style Sheets

4. Introduction to Web Publishing or Hosting

5. Creating web site structure, Creating Titles for web pages

Outcome of Program:

- Becoming a web developer is more than just working in the browser. Web developers write applications, and you are on that path.
- He encourages students to continue learning HTML, JavaScript, and PHP. But when student are comfortable, branch out to other languages and platforms.
- The more exposure and experience students have with other languages and platforms, the better they will become as a developer.

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DEPARTMENT OF MECHANICAL ENGINEERING

Date:12.01.2019

Program Report

Name Of the Event:A Certification Program On"Auto Cad & Catia Designer"
Date/Duration:10.12.2018 to 09.01.2019 (1 Month)

Resource Person Details: Mr. A Naresh Kumar, Assistant. Professor, ME,Cell:9966642416

Name of Coordinator: Mr.M Sreekanth Raghuveer, Assistant Professor, ME, Cell: 7013033386
Number of Students completed/enrolled:50/55

Objective of Event:The course will help students and professionals alike to learn the implementation of solid modeling and get hands-on experience with the real world projects. This course is structured in a pedagogical sequence to cover the topics of part design, assembly, drafting, wireframe & surface, and Generative Sheetmetal Design workbenches of Catia

Topics Covered: Introduction to Auto cad, Using rectangular 3D coordinates, the right-hand rule of drawing.3D polylines, working with the UCS.Sketcher-General, Display, Parameters & measure, Mechanical Design Æ Sketcher.Part design- Common toolbars like standard,view,workbench,selection,Sketcher. Assembly design- Common toolbars, Product structure tools.Wireframe and Surface Design- Common toolbars, Surfaces. Drafting-Page setup & customization,Layout & templates.Interactive design toolbars Æ geometry creation & modification.

Outcome of Program:After completion of this course, the students can analyze the product design and its dimensions. To develop the ability to create production drawing of assemblies and components and its design.

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DEPARTMENT OF EEE

Date: 07.01.2019

Program Report

Name of the Event: Certificate Program on "Power Converter Design and Analysis"

Date/Duration:(05.12.2018-07.01.2019)/32

Resource Person Details:Mr. C Vijay Asst. Prof, in Dept. of EEE,BITS,Adoni.

Name of CoordinatorMr M Siva Kumar Asst.Prof,SJCET

Number of Students completed/enrolled: 41/41

Objective of Event: Analysis and Design of Power Converter and The power factor improvement techniques and the reactive power compensation.

Topics Covered:

- AC-DC and DC-DC types of converters for different electrical loads
- The power balance equation in converter circuits
- The conditions required for operating the full converter in the inverter mode
- The function of freewheeling diode in controlled rectifier

Outcome of Program:

- The power factor improvement techniques.
- The various applications of controlled convert

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DEPARTMENT OF CIVIL ENGINEERING

Date: 06.01.2019

Program Report

Name of the Event: A Certificate Program on Subsurface Exploration & Geotechnical Investigation

Date/Duration: 03.12.2018-05.01.2019/27 DAYS

Resource Person Details: Mr. Syed AfzalBasha

Name of Coordinator: Mr. E. Vinay Kumar Goud

Number of Students completed/enrolled: 50

Objective of Event:

- How to plan the soil investigation based on scope of the project
- Preparation of the technical specification and bill of quantities for Geotechnical Investigation
- Soil sampling techniques and core recovery in rocks
- Presenting the cross section of sub soil profile using AUTOCAD & interpretation of Ground Engineering parameters from factual data
- Writing detailed Geotechnical Interpretative Report

Topics Covered:

- Site investigation,Planning of Sub Surface Exploration
- Soil Exploration Techniques & Field Investigation Techniques
- Laboratory Testing of Soil & Rock Samples
- Engineering Description & Classification of Soils
- Review of Field & Laboratory Test Results
- Interpretation of ground Engineering Parameters for Design

Outcome of Program:

- Reviewing the scope of the given proposed site & locating all the field tests on the given site layout
- Creating the site layout & locating all the field tests using AUTOCAD
- Preparing the detailed technical specifications for Geotechnical Investigation Program using Microsoft Word
- Preparing the bill of quantities in Excel format

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date:18.07.2018

Program Report

Name of the Event:A Certified Program on Emerging Trends in Image processing, Computer Vision & Pattern Recognition

Date/Duration:18.06.2018 to 18.07.2018/ 27 Days

Resource Person Details: Mr. G Nagaraju

Name of Coordinator: Mr. S Ahmed Basha

Number of Students completed/enrolled:50

Objective of Event:

- Transformation Methods
- Color Image Processing
- Image Enhancement in Frequency Domain
- Adaptive Filtering
- Challenges in Medical Applications
- Neuro Imaging

Topics Covered:

- Applications of Image Transforms in Image Enhancement both in Spatial and Frequency domain
- Histogram Equalization
- Applications of Image Enhancement in Medical Fields
- Adaptive Filtering to remove Noise
- Virtual Reality and Robotics Image

Outcome of Program:

- Image Analysis in Digital Pathology
- Applications and conclusions of Emerging Trends in Image processing, Computer Vision & Pattern Recognition
- Medical Image Processing: From Science to Application

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DEPARTMENT OF CSE

Date: 05.07.2018

Program Report

Name of the Event: Certificate Program on "CISCO Networking and IOT"

Date/Duration: 11.6.2018 to 03.07.2018 / 20 Days

Resource Person Details: Mr Y. NARASIMHA REDDY, Assot.Prof, BITS, Kurnool.

Name of Coordinator: Mr T. Abdul Raheem, Assit.Prof, SJCET.

Number of Students completed/enrolled: 38

Objective of Event: IoT Certification Training is designed by industry experts to make you a Certified IoT Developer. This IoT course offers:

- Understanding of IoT architecture and IoT Decision Framework
- Configure Raspberry Pi, Understand Sensors, Actuators & get started with python on Raspberry Pi
- Program Sensors (Sense-HAT board), Face Detection and reorganization using OpenCV-Python
- Understand various IoT Networking Protocols which are mainly used to develop communication solutions
- Getting started with Cloud and Azure IoT Hub, demonstration of Azure IoT Hub APIs

Topics Covered:

- What is IoT, how does it work
- Difference between Embedded device and IoT device
- Properties of IoT device
- IoT Ecosystem
- IoT Decision Framework
- IoT Solution Architecture Models
- How IoT is Transforming Businesses
- Major IoT Boards in Market
- Explore Raspberry Pi

Outcome of Program:

- What "the Internet of Things" means and how it relates to Cloud computing concepts
- How open platforms allow you to store your sensor data in the Cloud
- The basic usage of the Arduino environment for creating your own embedded projects at low cost
- How to connect your Arduino with your Android phone.
- How to send data to the Internet and talk to the Cloud.

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Yerrakota, YEMMIGANUR, Kurnool Dist. (A.P.)

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DEPARTMENT OF EEE

Date: 07.07.2018

Program Report

Name of the Event: Certificate Program on "PLC SCADAR and Industrial Automation".

Date/Duration:(05.06.2018-07.07.2018)/30

Resource Person Details: Mr. S Syed Saheb Asst. Prof, in Dept. of EEE, BITS, Adoni Kurnool

Name of Coordinator:Mr K ChitambaraiahSetty Asso.Profand HOD of the EEE department the EEE department

Number of Students completed/enrolled: 41/41

Objective of Event: Engineering Solutions & Services, specific applications of PLC SCADA

Topics Covered:

- Components of SCADA systems
- PLC control system work under a SCADA system
- Industrial Automation using SCADA, HMI & PLC
- Data Acquisition (SCADA) and Human Machine Interface (HMI)

Outcome of Program:

- Engineering Solutions & Services, specific applications of PLC SCADA
- Maintenance services of existing installations
- Logical, sequencing, timing, counting and arithmetic to control machin

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DEPARTMENT OF CIVIL ENGINEERING

Date: 05.07.2018

Program Report

Name of the Event: A Certificate Program on Auto Desk Certified Professional Program on Rivet for Structural Design

Date/Duration: 04.06.2018-04.07.2018/ 27 Days

Resource Person Details: Mr. S. Abusufiyan

Name of Coordinator: Mr. R. Tejanath

Number of Students completed/enrolled: 45

Objective of Event:

- To Start a Structural Project from working with linked or imported files to create a site file and setting up a shared coordinate system
- Content creation and management with deep dives on family categories and types

Topics Covered:

- Linking, importing files, understand the concept of copy and monitor elements from a linked file
- Create additional grids and levels, site file
- Working with Structural columns, walls, floors, framing & connections, foundations, reinforcement tools
- Manage family catalog, creating and managing callout views, details components

Outcome of Program:

- The student can give in depth review of structural elements and learn how to work with selection sets and element materials
- The student learn about annotation families such as tags, detail components and repeating views
- The student can perform how to collaborate and project management within Rivet Architecture

R. Tejanath
Program Coordinator

M. Dqm
HOD

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Civil Engineering Department
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DEPARTMENT OF MECHANICAL ENGINEERING

Date:07.07.2018

Program Report

Name Of the Event:A Certification Program On"Advanced Joining Techniques of Dissimilar Materials for Engineering Applications"
Date/Duration:04.06.2018 to 03.07.2018 (1 Month)

Resource Person Details: Mr. N Pradeep Kumar, Assistant. Professor, ME,Cell: 9490415417

Name of Coordinator: Mr. H Ranganna, Associate Professor, ME, Cell: 9490885094

Number of Students completed/enrolled:53/55

Objective of Event:To provide knowledge of fundamentals of joining, underlying principles, mechanisms related to fusion-joining technologies like arc heating, resistance heating, and radiation heating for developing sound joints. To provide knowledge of fundamental approaches to solid state joining technologies, underlying principles, mechanisms related to solid state joining technologies like micro and macro scale deformation, diffusion, adhesion for developing sound joints

Topics Covered: Fundamentals: Introduction, principles of fusion joining. Fundamentals of arc welding, physics welding arc.performance of joints by welding processes: GMAW, GTAW, PAW, SAW and their variants like P-GTAW, A-GTAW, hot wire GTAW, P-GMAW, FCAW, NGW. Fundamentals of resistance welding. Fundamentals of radiation based welding processes, melt-in and key hole modes.Fundamentals of diffusion based joining process, diffusion bonding. Heat treatment of weld joints for improving joint performance: Principle, Fe-C diagram CCT diagram.

Outcome of Program:After completion of this course, the students can learn advanced materials and joining techniques. An overview of applications and manufacturing methods of new materials will be provided while special focus will be put to polymeric matrix composites. The whole life cycle from raw material to a quality-controlled assembly will be studied, including general properties of materials, testing methods and NDT evaluation. An introduction to bioinspired materials, smart materials, functional materials will be provided. In addition this course will cover the most recent advances in welding and joining technologies.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 31.01.2018

Program Report

Name of the Event:A Certified Program on Analog VLSI Design and its Applications

Date/Duration:26.12.2017 to 31.01.2018/ 27 Days

Resource Person Details: Mr. K.Ayyanna

Name of Coordinator: Mr. T Chakrapani

Number of Students completed/enrolled:34

Objective of Event:

- Introduction To IC Technology
- Basic Processes Involved In Fabricating Monolithic ICs
- VLSI Circuit Design Processes
- MOS Layers
- Stick Diagrams

Topics Covered:

- Scaling of MOS Circuits
- The Applications of VLSI
- Serial Access Memories
- Gate Level Design
- Virtual Reality and Subsystem Design

Outcome of Program:

- Field Programmable Gate Array (FPGA)
- Advantages And Applications Of FPGA
- CPLD And CMOS Testing

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DEPARTMENT OF CSE

Date: 08.01.2018

Program Report

Name of the Event: "ACertificate Program on Cluster Computing"

Date/Duration: 12.12.2017 to 05.01.2018 / 21 Days

Resource Person Details: Mr V. DILIP KUMAR REDDY, Assit.Prof, PVKK, Tirupati.

Name of Coordinator: Mr T. Abdul Rheeem, Assit.Prof,SJCET.

Number of Students completed/enrolled: 38

Objective of Event: This course will investigate clusters of computers as a computing platform for distributed computing. By the end of the course, each student should understand specific hardware and software tradeoffs for cluster and application performance, and the issues involved in deployment and programming of a cluster of computers. Each student will complete a project based on cluster computing and/or cluster deployment and management. Course material will come from texts and assigned readings.

Topics Covered:

- A general introduction to the concept of cluster based distributed computing.
- Hardware technologies for cluster computing, including a survey of the possible node hardware and high-speed networking hardware and software.
- Software for cluster computing
- Software and software architectures for cluster computing, including both shared memory (OpenMP) and message-passing (MPI/PVM) models
- Performance evaluation tools, HINT, netperf, netpipe, ttcp, Iperf.
- Configuring and Tuning Clusters: This will involve evaluation of the performance of various nodes and networking hardware such as Gigabit Ethernet, Myrinet, Infiniband, Quadrics etc.

Outcome of Program:

- Each student will understand and complete a project based on Cluster computing and/or Cluster deployment and management.
- Each student should understand specific hardware and software tradeoffs for Cluster and application performance.
- Each student will get Course material will come from texts and assigned readings.

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DEPARTMENT OF MECHANICAL ENGINEERING

Date:12.01.2018

Program Report

Name Of the Event:A Certification Program On"3D Printing Technology in Engineering Education"
Date/Duration:11.12.2017 to 10.01.2018 (1 Month)

Resource Person Details: Mr. Vijayendra Kukanur, Assistant. Professor, ME,Cell: 9611689099

Name of Coordinator: Mr. A Vamshi Krishna, Assistant Professor, ME, Cell: 9581693242

Number of Students completed/enrolled: 51/55

Objective of Event:The student will be able to:To gain knowledge and skills related to 3D printing technologies, To learn the selection of material, equipment and development of a product for Industry 4.0 environment, To understand the various software tools, process and techniques for digital manufacturing, To apply these techniques into various.

Topics Covered:3D Printing (Additive Manufacturing), CAD for Additive Manufacturing, Additive Manufacturing Techniques ,Polymers, Metals, Non-Metals, Ceramics Process, Process parameter, Process Selection for various applications.Various forms of raw material-Liquid, Solid, Wire, Powder; Powder Preparation and their desired properties, Polymers and their properties. Additive Manufacturing Equipment. Post Processing: Requirement and Techniques. Product Quality - Inspection and testing, Defects and their causes.

Outcome of Program:After completion of this course, the students will be able to: Develop CAD models for 3D printing, Import and Export CAD data and generate .stl file, Select a specific material for the given application, Select a 3D printing process for an application, Produce a product using 3D Printing or Additive Manufacturing (AM).

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DEPARTMENT OF EEE

Date: 02.01.2018

Program Report

Name of the Event: Certificate Program on "Advanced MATLAB programing in Electrical Engineering"

Date/Duration:(06.12.2017-02.01.2018)/28

ResourcePerson Details:Mr.N Mahesh Asst. Prof, in Dept. of EEE, BITS, AdoniKurnool

Name of Coordinator:Mr P Pedda Reddy Asst. Prof of the EEE department

Number of Students completed/enrolled: 42/42

Objective of Event: MATLAB programming in an engaging and effective online environment complete with video tutorials

Topics Covered:

- MATLAB software and programming courses
- Simulink Modelling basics
- Statistics and Machine Learning Toolbox
- numeric computing environment developed by MathWorks MATLAB

Outcome of Program:

- Develop and deploy condition monitoring and predictive maintenance software
- Tracking Problem in State Feedback Design, State Observer Design.
- MATLAB tools and capabilities are all rigorously tested and designed to work together.

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DEPARTMENT OF CIVIL ENGINEERING

Date: 06.01.2018

Program Report

Name of the Event: A Certificate Program on Auto Desk Professionals Civil 3D for Infrastructure Design

Date/Duration: 04.12.2017-05.01.2018/28 DAYS

Resource Person Details: Mr. S. Zubeeruddin

Name of Coordinator: Mr. R. Parthasarathy

Number of Students completed/enrolled: 50

Objective of Event:

- To create points, labels, survey data base & analysis of Civil 3D tools
- To create parcel styles, surfaces, alignments, profiles, pipe networks etc.
- To make data shortcuts, alignments, profiles, corridors, pipe networks & plan production resources

Topics Covered:

- Point creation, labels creation, 3D surveying tools
- Parcel creation, surface & surface statistics, tin surfaces, feature lines
- Alignments, profiles, corridors, pipe networks & Plan production

Outcome of Program:

- The students can able to create points with different parameters & rotate point markers assigning styles & do Survey database traverse & map check analysis
- The student can able to create Surfaces and boundaries, alignments, profiles, pipe networks & plan Production

R. Parthasarathy
Program Coordinator

M. Depuru
HOD

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DEPARTMENT OF CSE

Date: 25.08.2017

Program Report

Name of the Event: Android Mobile Application Development

Date/Duration: 24-07-2017 to 22-8-2017 / 26 Days

Resource Person Details: Mr. P. Dilip Kumar Reddy, Assot.Prof, SVCE, Tirupati.

Name of Coordinator: Mr. C. Ram Babu Assit.Prof, SJCET.

Number of Students completed/enrolled: 58

Objective of Event:

To get started with writing Android mobile application. To provide necessary knowledge about mobile open source ecosystem. Taking through hands-on experience to develop intermediate level applications.

Topics Covered:

1. Introduction to Mobile Applications.
2. Introduction to Android.
3. Developing simple user interface, Running your first application
4. Advanced UI – Gestures, Fragments
5. Creating custom components, Sample projects.

Outcome of Program:

Student mastery of learning outcomes will be assessed using:

- Programming labs
- Quizzes /Tests
- Discussion participation on topics related to the Android programming environment and Android application marketplace.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 22.07.2017

Program Report

Name of the Event:A Certified Program on Advancements in VLSI, Communication and Signal Processing.

Date/Duration:24.06.2017 to 22.07.2017/ 27 Days

Resource Person Details: Mr. B.Abdul Raheem

Name of Coordinator: Mr. T Chakrapani

Number of Students completed/enrolled: 34

Objective of Event:

- Analog, digital and mixed signal design
- Low-power design
- Device modeling and process simulation
- Adaptive Filtering
- Communication theory
- Microwave communications

Topics Covered:

- Applications in Biomedical signal processing
- Adaptive and Array Signal Processing
- Data Networking
- Wireless and ad hoc networks

Outcome of Program:

- Topology Optimization for Directional Antenna Network
- Integrated Cluster-based Routing Protocol
- Terrestrial Microwave Communication

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DEPARTMENT OF EEE

Date: 10.07.2017

Program Report

Name of the Event:Certificate Program on **FACTS Devices Distributed Generation**

Date/Duration:(08.06.2017-10.07.2017)/31

Resource Person Details:Mr.E Ravi Teja Asst. Prof, in Dept. of EEE, KVSR, Kurnool

Name of Coordinator:Mr S ShamshulHaq Asst. Prof of the EEE department

Number of Students completed/enrolled: 42/42

Objective of Event: the converter topology, the basic control strategies and the applications of multi-level FACTS devices

Topics Covered:

- The FACTS technology and The FACTS devices control
- Introduction the FACTS devices first generation, and second generation
- The FACTS technology and The FACTS devices control
- Specific FACTS controllers including SVC, STATCOM, TCSC, SSSC, UPFC, IPFC

Outcome of Program:

- the electrical system, that will need an important electronic equipment
- The solutions to improve the quality of supply in the electrical networks with distributed generation
- The development of high power inverters

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DEPARTMENT OF CIVIL ENGINEERING

Date: 08.07.2017

Program Report

Name of the Event: A Certificate Program on Mastering Bitumen for Better Roads & Innovative Applications

Date/Duration: 06.06.2017-07.07.2017/ 28 Days

Resource Person Details:Mr. C. NAGARAJU

Name of Coordinator:Mr. E. Vinay Kumar Goud

Number of Students completed/enrolled:55

Objective of Event:

- To know the Bitumen Market, manufacture & uses of Bitumen
- To know the Composition & Road Construction bitumen characteristics
- To know the Bitumen based Standards & Developments
- To Design & testing of various Mixes & Risks associated with Bitumen

Topics Covered:

- Bitumen main Developments & Alternatives
- Road Construction Bitumen's Characteristics
- Modifications & Applications of Bitumen & Testing
- Health, Safety, Environment & Quality concerns of Bitumen
- Danger & Risks associated with Bitumen & Research associated with Innovations applied

Outcome of Program:

- Road construction Bitumen's Characteristics
- Modifications of Bitumen & Applications
- Design of Flexible Pavements
- Research & Innovation actions to improve Safety with Bitumen
- Global view of Bitumen product standards & Road of the Future

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DEPARTMENT OF MECHANICAL ENGINEERING

Date:06.07.2017

Program Report

Name Of the Event:A Certification Program On"Advances in Materials and Manufacturing"
Date/Duration:05.06.2017 to 04.07.2017 (1 Month)

Resource Person Details: Mr. K Nagaraju, Assistant. Professor, ME,Cell: 9885638377

Name of Coordinator: Mr. S Kamalesh Rao, Assistant Professor, ME, Cell: 9640114169

Number of Students completed/enrolled: 50/55

Objective of Event:Provides the latest state-of-the art on different manufacturing processes, including a biomimetics viewpoint. Offers broad coverage of advances in materials and manufacturing

Topics Covered: Tool design for selected non-traditional machining processes. Modelling and simulation of selected processes. A comparative study of various processes.Abrasive Flow Machining; Magnetic Abrasive Finishing; Magneto Rheological Abrasive Finishing.Conventional processes-High Energy Rate Forming techniques-Explosive forming, electro hydraulic forming. Micro-Machining:Introduction to micromachining technologies, Microelectro discharge Machining: Principles of micro-EDM, micro-EDM by Die-sinking and WEDG, micro-WEDM, micro-WEDG, micro-ECM, Principles of microturning, micro-drilling and micro-milling, micro grinding, hybrid micromachining method

Outcome of Program:Students will get to know the different classes of materials used in engineering applications and would be able to choose the right materials for specific applications. Students will learn the sample preparation methods and sample handling.

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