S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
1	SAP- ABAP	SAP_CSE	120 HOURS	112	112

Objectives:

1. To understand the key concepts in object oriented programming and integrate it into SAPABAP.

2. To implement the various applications

3. To understand ABAP objects and how to use them in workbench tools to develop their own business applications.

4. To enhance the standard SAP software4 to meet specific customer requirements

Outcomes:

After the completion of the course students will be able to

1. To prepare scope of the projects and organize team, the vendors and hardware.

2. To define Business blueprint

3. Ro configure the system, write middleware interfaces develop ABAP code.

4. To test and train the collected data necessary for various applications.

Curriculum:

Unit 1: SAP Systems
Unit 2: SAP Portfolio
Unit 3: Navigation Basics
Unit 4: SAP User Interfaces
Unit 5: System Core
Unit 6: Communication and Integration
Unit 7: Flow of an ABAP Program
Unit 8: ABAP Workbench
Unit 9: Basic ABAP Language Elements
Unit 10: Modularization Techniques
Unit 11: Complex Data Objects
Unit 12: Data Modeling and Data Retrieval
Unit 13: Classic ABAP Report ts
Unit 14: Program Analysis Tools
Unit 15: Program Calls and Memory
Unit 16: ABAP Open SQ L
Exam

Assessment:

At the end of the course Module wise internal assessments to be done and we distributed certificates to students.

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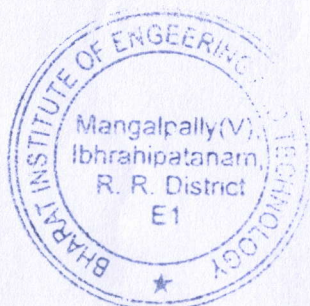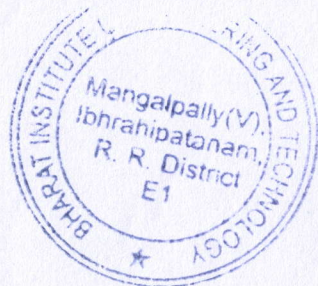R.R.DIST. TELANGANA-501510

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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
2	Technical Training - C Programming	STC_CSE	69 HOURS	102	102

Objectives:

1. To provide exposure to problem-solving through programming.
2. To train the student to the basic concepts of the C-programming language.
3. To have hands on practice with a lab component which is designed to give the student hands-on experience with the concepts.

Outcomes:

After the completion of the course students will be able to

1. Given a computational problem, identify and abstract the programming task involved.
2. Approach the programming tasks using techniques learned and write pseudo-code.
3. Choose the right data representation formats based on the requirements of the problem.
4. Use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand.
5. Write the program on a computer, edit, compile, debug, correct, recompile and run it.

Curriculum:

- I/O Functions, Data Types
- Control Flow
- Operators and Array
- Pointers
- File Handling
- Structures and User Defined Data Types.

Assessment:

At the end of the course Module wise internal assessments to be done and we distributed certificates to students.
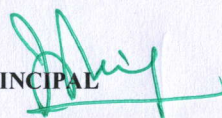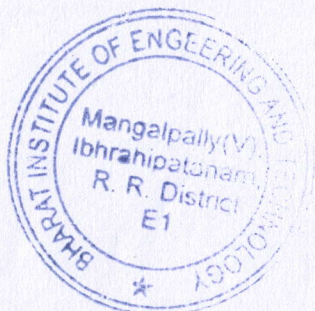
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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
3	Technical Training – Communication Skills	STCOM_HS	34 HOURS	53	53

Objectives:	Outcomes:
1. Understand the role of communication in personal & professional success. 2. Develop awareness of appropriate communication strategies. 3. Prepare and present messages with a specific intent. 4. Analyze a variety of communication acts. 5. Ethically use, document and integrate sources. 1.	After the completion of the course students will be able to 1. Able to understand and apply knowledge of human communication and language processes as they occur across various contexts 2. Able to understand and evaluate key theoretical approaches used in the interdisciplinary field of communication. 3. Able to understand the research methods associated with the study of human communication, and apply at least one of those approaches to the analysis and evaluation of human communication. 4. Able to find, use, and evaluate primary academic writing associated with the communication discipline.

Curriculum:	Assessment:
• Numerical ability, Introduction • Test-1 • Verbal Reasoning, Introduction • Test-2	At the end of the course Module wise internal assessments to be done and we distributed certificates to students.

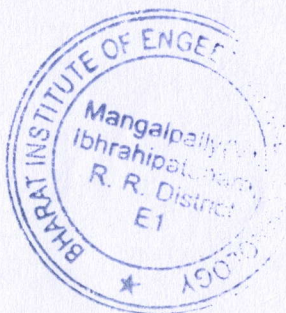PRINCIPAL

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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
4	Technical Training : Python	TPY_CSE	84 HOURS	52	52

Objectives:

1. To understand why Python is a useful scripting language for developers.
2. To learn how to design and program Python applications.
3. To learn how to use lists, tuples, and dictionaries in Python programs. 4.To learn how to identify Python object types.

Outcomes:

After the completion of the course students will be able to

1. Use if-else statements and switch-case statements to write programs in Python to tackle any decision-making scenario
2. Master Object-oriented programming to create an entire Python project using objects and classes.
3. Store and retrieve information using variables.
4. Develop cost-effective robust applications using the latest Python trends and technologies
5. Proficient in Debugging and Version Control
   1.

Curriculum:

- Basics of Python & Installation, With Sample Programs Execution
- Language Fundamentals
- Operators
- Flow Control
- String Data Type
- Lists Data Structure

Assessment:

At the end of the course Module wise internal assessments to be done and we distributed certificates to students.
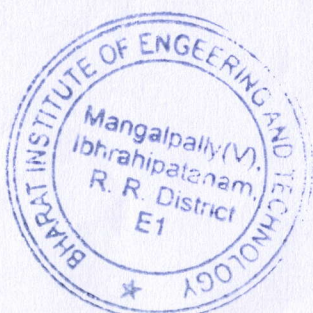
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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
5	Technical Training IOT	TTIOT_CSE	34 HOURS	54	54

Objectives:

1. Address the real world problems and find the required solution.
2. Design the problem solution as per the requirement analysis done.
3. Study the basic concepts of programming/ hardware/ emulator for Raspberry pi/Arduino/ ARM Cortex/ Intel Galileo etc.
4. Fabricate and implement the mini project intended solution for project based learning.
5. Build and test the mini project successfully. 6. Improve the team building, communication and management skills of the students

Outcomes:

1. After the completion of the course students will
2. Identify the requirements for the real world problems.
3. Conduct a survey of several available literatures in the preferred field of study.
4. Study and enhance software/ hardware skills.
5. Demonstrate and build the project successfully by hardware requirements, coding, emulating and testing.

Curriculum:

- IOT concepts: Technologies that led to evolution of IOT
- IOT Standards: Requirement of international standard (case study)
- IOT and Individual Privacy.
- Smart Parking (case study)
- Challenges in IOT implementation: Big Data Management
- Laboratory Practice
- Project
- Exam

Assessment:

At the end of the course Module wise internal assessments to be done and we distributed certificates to students.
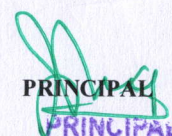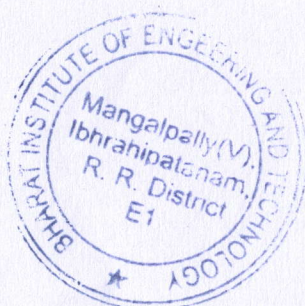
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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
6	Technical Training_ HTML	TTH_CSE	36 HOURS	45	45

Objectives:	Outcomes:
1. Insert a graphic within a web page. 2. Create a link within a web page. 3. Create a table within a web page. 4. Insert heading levels within a web page. 5. Insert ordered and unordered lists within a web page. 6. Use cascading style sheets. 7. Create a web page. 8. Validate a web page.	After the completion of the course students will be able to 1. Creator: Design basic 2D and 3D assets 2. Builder: Combine 2D and 3D assets in the assembly of a project 3. Developer: Use multiple designed assets in completed products and models 4. Maker: Design multiple and integrating assets for use in complex finished projects and models

Curriculum:	Assessment:
Module 1: Web Programming Introduction Module 2: HTML – Introduction, History of HTML Module 3: HTML- Basic Formatting Tags: HTML Basic Tags, Formatting Module 4: HTML- Grouping Using Div Span, Div and Span Tags for Grouping Module 5: HTML- Lists: Unordered Lists, ordered lists, Definition list Module 6: HTML- Images: Image and Image Mapping Module 7: HTML- Hyperlink: URL- Uniform Resource Locator Module 8: HTML – Table Module 9: HTML – Iframe: Attributes using & iframe as the target Module 10: HTML- Form Module 11: HTML- Headers Module 12: HTML Miscellaneous: HTML Meta Tag, XHTML, HTML Deprecated Tags & Attributes Module 13: CSS2 Introduction, Benefits of CSS, Versions History, CSS Syntax	At the end of the course Module wise internal assessments to be done and we distributed certificates to students.

S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
7	Technical Training : Android	TTA_CSE	30 HOURS	42	42

Objectives:

1. Develop a grasp of the Android OS architecture.
2. Understand the application development lifecycle.
3. Experiment with database to store data locally.
4. Familiarize with Android's APIs for data storage, retrieval, user preferences, files and content providers.

Outcomes:

After the completion of the course students will be able to

1. Demonstrate their understanding of the fundamentals of Android operating systems
2. Demonstrate their skills of using Android software development tools
3. Demonstrate their ability to develop software with reasonable complexity on mobile platform
4. Demonstrate their ability to deploy software to mobile devices
5. Demonstrate their ability to debug programs running on mobile devices

Curriculum:

- Introduction to Android. Smartphone features.
- Installing the SDK. Creating Android Emulator.
- Android Life cycle. Android applications structure.
- Creating a project.
- Text controls, Button controls, Images, Supporting Multiple Screen
- Activities.
- List View.
- Toast. Dialogue Notification.
- Option Menu.
- File . Shared Preferences.
- Exam

Assessment:

At the end of the course Module wise internal assessments to be done and we distributed certificates to students.
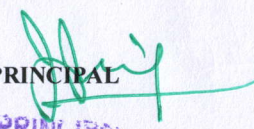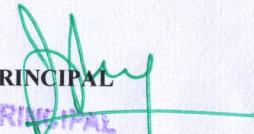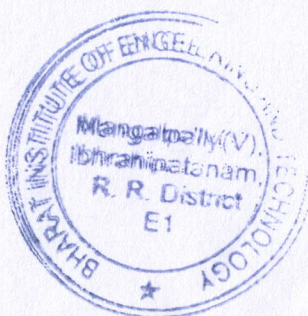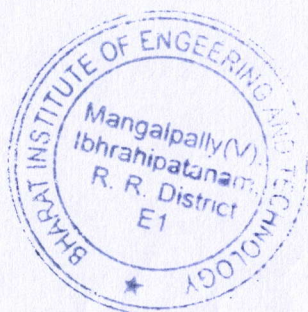
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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
8	Technical Training: R Programming	TTR_CSE	30 HOURS	41	41

Objectives:	Outcomes:
1.Master the use of the **R** interactive environment. 2.Expand **R** by installing **R** packages. 3.Explore and understand how to use the **R** documentation. 4.Read Structured Data into **R** from various sources. 5. 5.Understand the different data types in **R**. 6.6.Understand the different data structures in **R**.	After the completion of the course students will be able to 1.Download and install R and R Studio 2.Navigate and optimize the R integrated development environment (IDE) R Studio 3.Install and load add-in packages 4.Import external data into R for data processing and statistical analysis 5.Learn the main R data structures – vector and data frame 6.compute basic summary statistics
Curriculum:	**Assessment:**
- Why R and Installation Procedure - Introduction _Help_ Demo examples_ packages_ libraries - Basics in Calculations - Data management - Strings - Data frames - Data handling - Statistical functions	At the end of the course Module wise internal assessments to be done and we distributed certificates to students.

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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
9	Web Designing	WD_CSE	30 HOURS	43	43

Objectives:

1. Understand how to plan and conduct user research related to web usability.
2. Learn the language of the web: HTML and CSS.
3. Learn CSS grid layout and flexbox.
4. Learn techniques of responsive web design, including media queries.

Outcomes:

After the completion of the course students will be able to

1. You will discover how does web works really, what makes web sites work.
2. Simple and impressive design techniques, from basics till advanced to focus on goal oriented and user centric designs.
3. How to and where to start research, planning for website & actually build excellent web sites.
4. Pro level skills in SEO with keyword research and content strategy for your website.

Curriculum:

Module 1: Introduction to Web Technologies:
Module 2: Adobe Photoshop:
Module 3: Introduction to Adobe Dreamweaver
Module 4: Introduction to jQuery and jQuery UI
Module 5: Introduction to Animation, Introduction to Adobe
Module 6: Web Hosting, Web Hosting Basics,

Assessment:

At the end of the course Module wise internal assessments to be done and we distributed certificates to students.
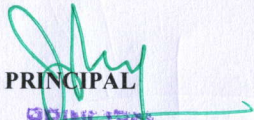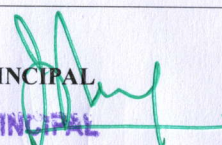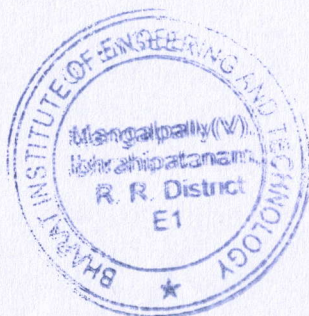
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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
13	Technical training – MATLAB for communications	STML_ECE	52 HOURS	83	83

Objectives:	Outcomes:
1. To understand the building blocks of digital communication system. 2. To prepare mathematical background for communication signal analysis. 3. To understand and analyze the signal flow in a digital communication system. 4. To analyze error performance of a digital communication system in presence of noise and other interferences. 5. To understand concept of spread spectrum communication system.	After the completion of the course students will be able to 1. Analyze the performance of a baseband and pass band digital communication system in terms of error rate and spectral efficiency. 2. Perform the time and frequency domain analysis of the signals in a digital communication system. 3. Select the blocks in a design of digital communication system. 4.Analyze Performance of spread spectrum communication system.
Curriculum:	**Assessment:**
• Introduction to MATLAB, Arithmetic, logical, Matrix operations • Introduction to 2-D signal processing and its Industrial Applications • Implementation of 2-D signals • Test 1 • Implementation of ASK and FSK • Implementation of BPSK, QPSK, QAM • Wireless Waveform Generators for OFDM with Different Antennas Configuration Session – I • Test 2 • Channel Modeling-2 • Path Loss • MEX file Application -Basics • Test 3	At the end of the course Module wise internal assessments to be done and we distributed certificates to students.

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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
14	Technical training – MATLAB Application to Power electronics and Lab view	STPE_EEE	52 HOURS	87	87

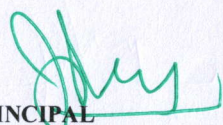| **Objectives:**	**Outcomes:**
1. To familiarize the student in introducing and exploring MATLAB & LABVIEW software's. 2. To enable the student on how to approach for solving Engineering problems using simulation tools. 3. To prepare the students to use MATLAB/LABVIEW in their project works. 4. To provide a foundation in use of this software's for real time applications.	After the completion of the course students will be a 1. Ability to express programming & simulation for engineering problems. 2. 2 Ability to find importance of this software for Lab Experimentation. 3. Articulate importance of software's in research by simulation work. 4. In-depth knowledge of providing virtual instruments on LabVIEW Environment. 5. Ability to write basic mathematical, electrical, electronic problems in Matlab. 6. Ability to simulate basic electrical circuit in Simulink. 7. Ability to connect programming files with GUI Simulink.
Curriculum	**Assessment:**
• Review of modern power switching devices • Thyristor, GTO, MOSFET, BJT, IGBT and MCT • MATLAB Practice session - I • MATLAB Practice session – II • Basic concepts, types of loads, characteristics and operating modes of drive motors; • Starting, braking and speed control of motors • Modern trends in industrial drives and control; AC motor drives in transportation system and traction • LAB VIEW introduction, Loops and Execution Structures • Data Types and Structures, Graphical Programming, Programming Tools • Signal Processing and power electronic circuit implementation using LABVIEW • Project	At the end of the course Module wise internal assessments to be done and we distributed certificates to students.

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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
15	Technical training – IOT Based on Bolt, MATLAB Programming, PCB Design	STMAT_EEE	42 HOURS	86	86

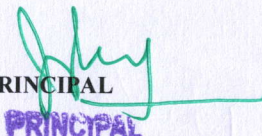| **Objectives:**	**Outcomes:**
1. To select and use appropriate test equipment and procedures from a wide range of possibilities; 2. To analyze and interpret test results and measurements on electric circuits, in terms of theoretical models, 3. To predict the performance of electric circuits from device characteristics and to design an electronic printed circuit board for a specific application using industry standard software.	After the completion of the course students will be able to 1.Able to analyze the fabrication processes of printed circuit boards. 2. Perform the chemical and mechanical processes by using negative/positive masks 3. Students are able to define how to operate the software and hardware (i.e. drilling, etching/routing, milling equipment's as well as the developer and etcher machines)
Curriculum	**Assessment:**
- PCB Basics, Menu Bar, Toolbars, Command Toolbar, Placement Toolbar, Route toolbar - Custom Toolbar, Prompt Toolbar, Status Line, X and Y Coordinates, Grid Toggle Buttons - PCB Design Session - Circuit design and implementation using PCB Session - Documenting a Design with Document Toolbox Session - Routing Features, Auto Routing - Design Verification session	At the end of the course Module wise internal assessments to be done and we distributed certificates to students.
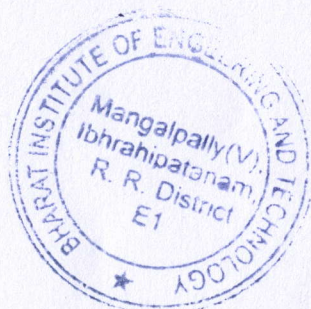
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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
16	Technical training – Practical Session on PSPICE	STPS_EEE	52 HOURS	76	76

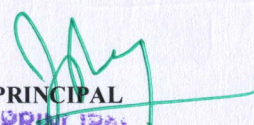| **Objectives:**	**Outcomes:**
1. To gain hands on experience in designing electronic circuits. 2.To learn simulation software used in circuit design. 2. To learn the fundamental principles of amplifier, Oscillator and multivibrator circuits 3. Construct waveform generation circuits	After the completion of the course students will be able to Analyze the characteristics of amplifiers. Analyze the characteristics of Oscillators. Analyze the characteristics of Multivibrators. Analyze the characteristics of tuned amplifiers. analyze the frequency response of amplifiers using pSpice. Model the design of electronic circuits using PSpice.
Curriculum	**Assessment:**
- Introduction to PSPICE, Download and installation - Getting started with Simulation Software, Basic steps of PSPICE - DC Circuits Analysis in PSPSICE - Linear Resistance calculation - Nonlinear Resistance calculation - Transient Analysis - AC Sweep Analysis - Buck converter design and simulation using PSPICE - Digital System simulation using PSPICE - Design and simulation of Multiplexer using PSPICE	At the end of the course Module wise internal assessments to be done and we distributed certificates to students.

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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
17	Integration and Control of Embedded Electrical system	ICE_EEE	34 HOURS	41	41

Objectives:	Outcomes:
1. To provide an overview of Design Principles of Embedded System. 2. To provide clear understanding about the role of firmware , operating systems in correlation with hardware systems.	After the completion of the course students will be able to 1. Expected to understand the selection procedure of Processors in the Embedded domain. 2. Design Procedure for Embedded Firmware. 3. Expected to visualize the role of Real Time Operating Systems in Embedded Systems 4. Expected to evaluate the Correlation between task synchronization and latency issues

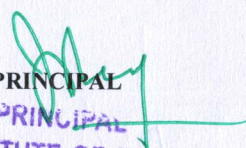| Curriculum	Assessment:
- Introduction & Overview - Design Process: Requirements, Specifications, Architecture Design, Designing of Components, System Integration - Embedded System Architecture - Basic Embedded Processor/Microcontroller Architecture - RISC Example: ARM, DSP Processors, Harvard Architecture, PIC - Embedded Control Applications, PID Controllers - Fuzzy Logic - Fault-tolerance Techniques: Reliability Evaluation Techniques	At the end of the course Module wise internal assessments to be done and we distributed certificates to students.
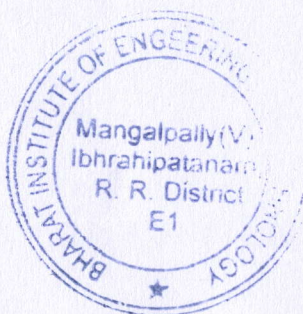
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S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
19	Technical training on Practical Session on building construction	STBC_CIVIL	36 HOURS	35	35

Objectives:	Outcomes:
1. To make students aware with different advance building construction methodologies. 2. To prepare the students to handle the errors they are likely to come across any large scale survey works.	After the completion of the course students will be able to 1. Students are able to understand the property, use, advantage and disadvantage of different material used in construction 2. Students are able to understand the component of building with their function 3. Students are able to understand construction procedure of different components
Curriculum	**Assessment:**
• Explanation of building. • Purpose of building • Materials for building • Teams in the building process • Members in the building teams • Features of Bills of Quantities • Materials schedule	At the end of the course Module wise internal assessments to be done and we distributed certificates to students.
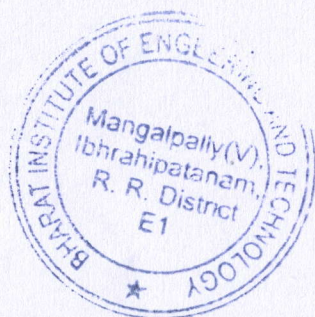
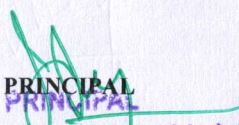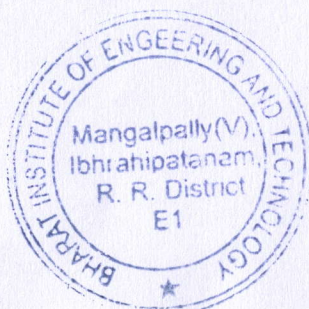PRINCIPAL

S. No	Name of the Course	Course Code	Duration	Number of students Registered	Number of students Benefited
21	Technical training on AUTOCAD, MATLAB, CREO AND ANSYS	STAMCA_MECH	37 HOURS	41	41

Objectives:	Outcomes:
1. To provide the fundamental concepts of the theory of the finite element method 2. To develop proficiency in the application of the finite element method (modeling, analysis, and interpretation of results) to realistic engineering problems through the use of a major commercial general-purpose finite element code	After the completion of the course students will be able to 1. To demonstrate the ability to create models for trusses, frames, plate structures, machine parts, and components using ANSYS general-purpose software; 2. To model multi-dimensional heat transfer problems using ANSYS; 3. To demonstrate the ability to evaluate and interpret FEA analysis results for design and evaluation purposes; 4. To develop a basic understanding of the limitations of the FE method and understand the possible error sources in its use.
Curriculum	**Assessment:**
- Introduction to AUTOCAD - Sketch Tool Bar and Applications, Modify Toolbar and Applications - Annotations, AUTOCAD Exercise Session - I 3D Module, 3D – Draw Tools and Modify Tools, 3D Modeling & Exercises - Assembly & Drafting - Introduction, 2D Tools- Drawing, Line, Arc, Circle, Rectangle 2D Tools, Modifying, Mirror, copy, off set, move, trim 3D Drawing tools, Extract, Revolve, Sweep, hole - Practice Session on CREO - I - Test & Evaluation	At the end of the course Module wise internal assessments to be done and we distributed certificates to students.

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