



Shree.Shetty Sangappa Trust's

CET Code: E-216(UG)

SHETTY INSTITUTE OF TECHNOLOGY

(An ISO 9001:2015 Certified Institution)

(Affiliated to Visvesvarya Technological University Belgaum and approved by AICTE, New Delhi)

Shahabad Road, Kalaburagi- 585105, Karnataka- India

Office: 08472-298922

Website: www.sit_gulbarga.org

Date: 8/10/2021

NOTICE

All the Students are hereby informed to attend the Certification course on "ARTIFICIAL INTELLIGENCE MARKUP LANGUAGE" from 15-Nov-21 onwards in Seminar Hall without fail. Every day, attendance will be noted.

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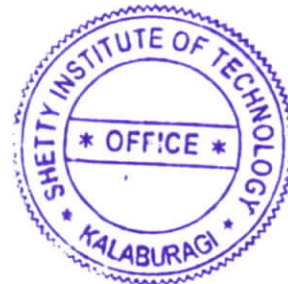
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- 3) Notice Board
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- 5) Circular File

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CERTIFICATION COURSE

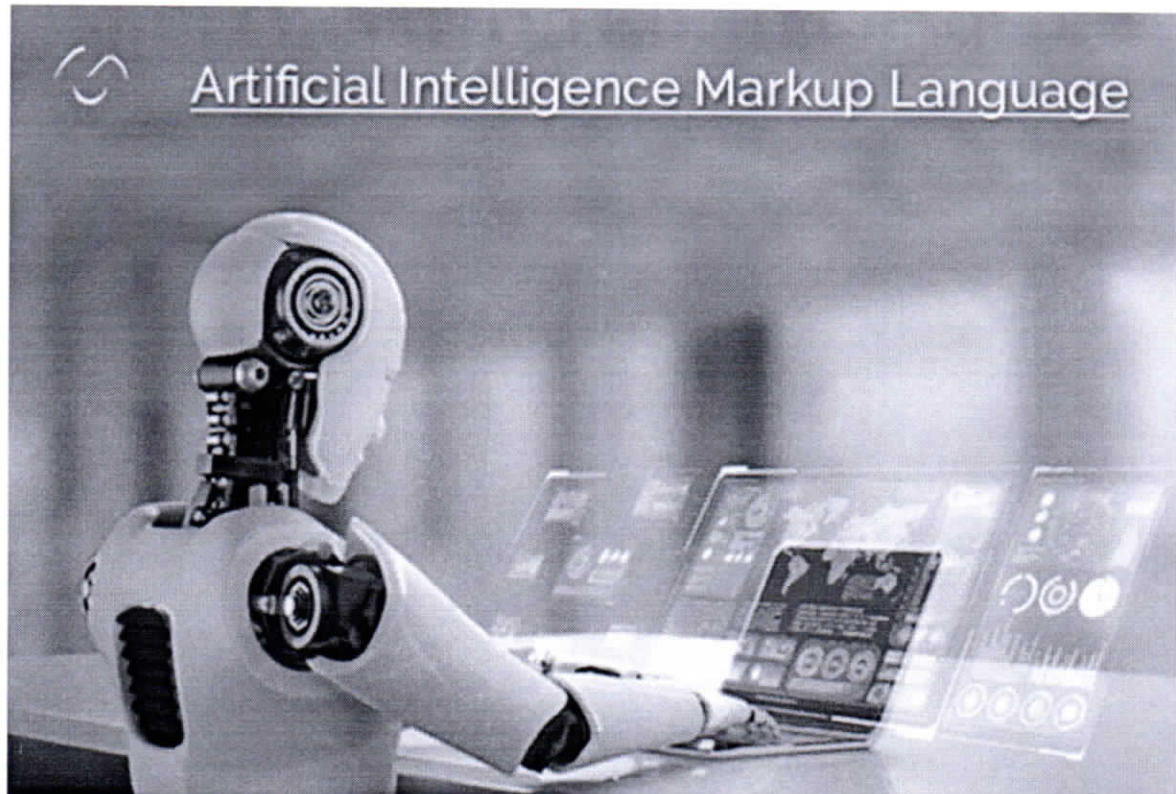
SYLLABUS

ACADEMIC YEAR 2021-2022


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ARTIFICIAL INTELLIGENCE MARKUP LANGUAGE

Course Description:

This course provides an introduction to Artificial Intelligence Markup Language (AIML), a powerful language for creating chatbots and natural language processing (NLP) applications. Students will learn the fundamentals of AIML, including syntax, pattern matching, and chatbot development. The course includes lectures, hands-on labs, and projects to give students practical experience in building AIML-based applications.

Course Objectives:

- Introduce the basics of Artificial Intelligence Markup Language (AIML) and its structure.
- Teach students how to create and manage AIML files.
- Explain the principles of pattern matching and response generation in AIML.
- Cover the development of chatbots using AIML.
- Apply AIML to real-world NLP applications through hands-on labs and projects.

SYLLABUS

Sl.no	Topic	
1	Introduction to AIML	<ul style="list-style-type: none">• Overview of AIML• Installation and basic setup
2	Basic AIML Syntax	<ul style="list-style-type: none">• Understanding AIML tags and elements• Hands-on lab: Creating simple AIML files
3	Pattern Matching in AIML	<ul style="list-style-type: none">• Introduction to pattern matching• Hands-on lab: Implementing pattern matching
4	Writing AIML Templates	<ul style="list-style-type: none">• Creating templates for responses• Hands-on lab: Writing AIML templates
5	Developing Simple Chatbots	<ul style="list-style-type: none">• Basics of chatbot development• Hands-on lab: Developing a simple chatbot


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Office: 08472-298922

Website: www.sit.gulbarga.org

Date: 30/11/2021

CIRCULAR

All the Students are hereby informed to attend the Certification course on "COMMUNICATION SKILLS" from 6-Dec-21 onwards in Seminar Hall without fail. Attendance will be recorded every day.

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CERTIFICATION COURSE SYLLABUS

ACADEMIC YEAR 2021-2022

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COMMUNICATION SKILL

Course Description:


This course focuses on developing essential communication skills for personal and professional success. Students will learn techniques for effective verbal and non-verbal communication, active listening, public speaking, and writing. The course includes lectures, interactive activities, and practical assignments to enhance communication proficiency.

Course Objectives:

- Introduce the fundamentals of effective communication.
- Teach students how to communicate clearly and confidently in various contexts.
- Develop active listening and interpersonal skills.
- Improve public speaking and presentation abilities.
- Enhance written communication skills for different purposes.

SYLLABUS

Sl.no	Topic	
1	Introduction to Communication Skills	<ul style="list-style-type: none">• Overview of communication• Key principles and importance
2	Verbal Communication	<ul style="list-style-type: none">• Techniques for clear and effective verbal communication• Hands-on activity: Role-playing exercises
3	Non-verbal Communication	<ul style="list-style-type: none">• Understanding body language, facial expressions, and gestures• Hands-on activity: Non-verbal communication practice
4	Active Listening	<ul style="list-style-type: none">• Principles of active listening• Hands-on activity: Listening exercises and feedback sessions
5	Interpersonal Communication	<ul style="list-style-type: none">• Building rapport and empathy• Hands-on activity: Interpersonal communication scenarios


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Date: 18/10/2021

NOTICE

All the Students are hereby informed to attend the Certification course on "CYBER SECURITY" from 25-Oct-21 Seminar Hall. Attendance is mandatory.

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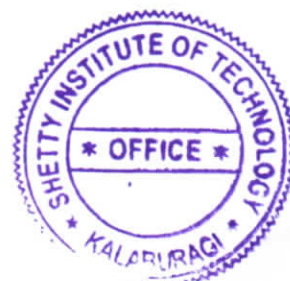
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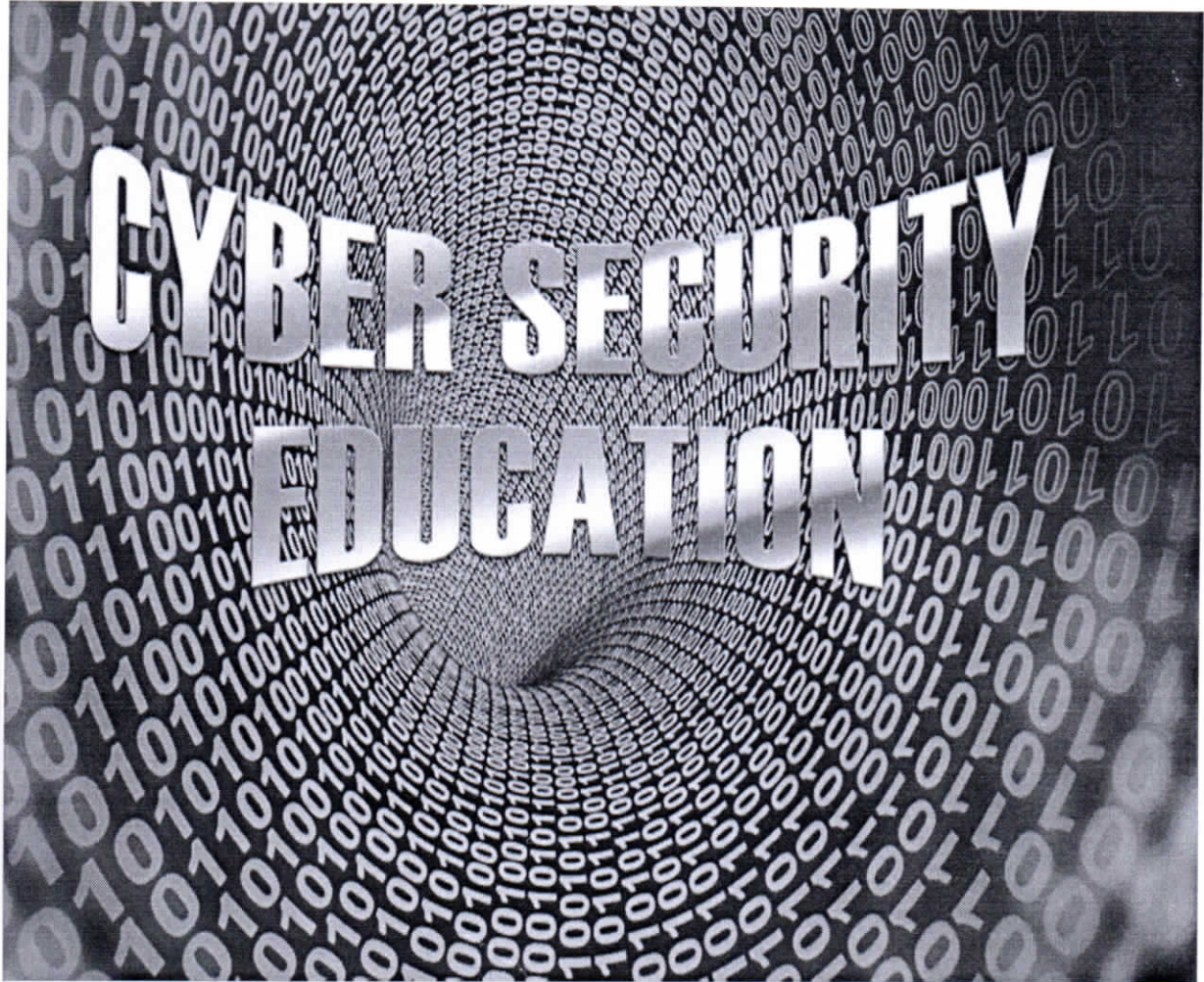
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CYBER SECURITY

Course Description:

This course provides an overview of cyber security principles, practices, and technologies. Students will learn about various types of cyber threats, how to protect systems and data, and the legal and ethical aspects of cyber security. The course includes lectures, hands-on labs, and projects to provide practical experience in securing computer systems and networks.

Course Objectives:

- Introduce the basic concepts and terminology of cyber security.
- Teach students about common types of cyber threats and attacks.
- Explain various methods and tools for protecting systems and data.
- Cover the principles of network security and secure communication.
- Explore legal and ethical issues related to cyber security.

SYLLABUS

Sl.no	Topic	
1	Introduction to Cyber Security	<ul style="list-style-type: none">• Overview of cyber security• Key concepts and terminology
2	Types of Cyber Threats and Attacks	<ul style="list-style-type: none">• Malware, phishing, and other common threats• Case studies of cyber attacks
3	Basics of System Security	<ul style="list-style-type: none">• Operating system security• User authentication and authorization• Hands-on lab: Implementing system security measures
4	Data Protection Techniques	<ul style="list-style-type: none">• Encryption and data integrity• Secure data storage• Hands-on lab: Data encryption
5	Network Security Fundamentals	<ul style="list-style-type: none">• Network protocols and security• Firewalls and intrusion detection systems• Hands-on lab: Configuring a firewall



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Date: 30/03/2022

CIRCULAR

All the Students are hereby informed to attend the Certification course on "**PROJECT MANAGEMENT AND PROFESSIONALS**" from 6-Apr-22 onwards in Second Floor Seminar Hall without fail. Daily attendance will be taken.

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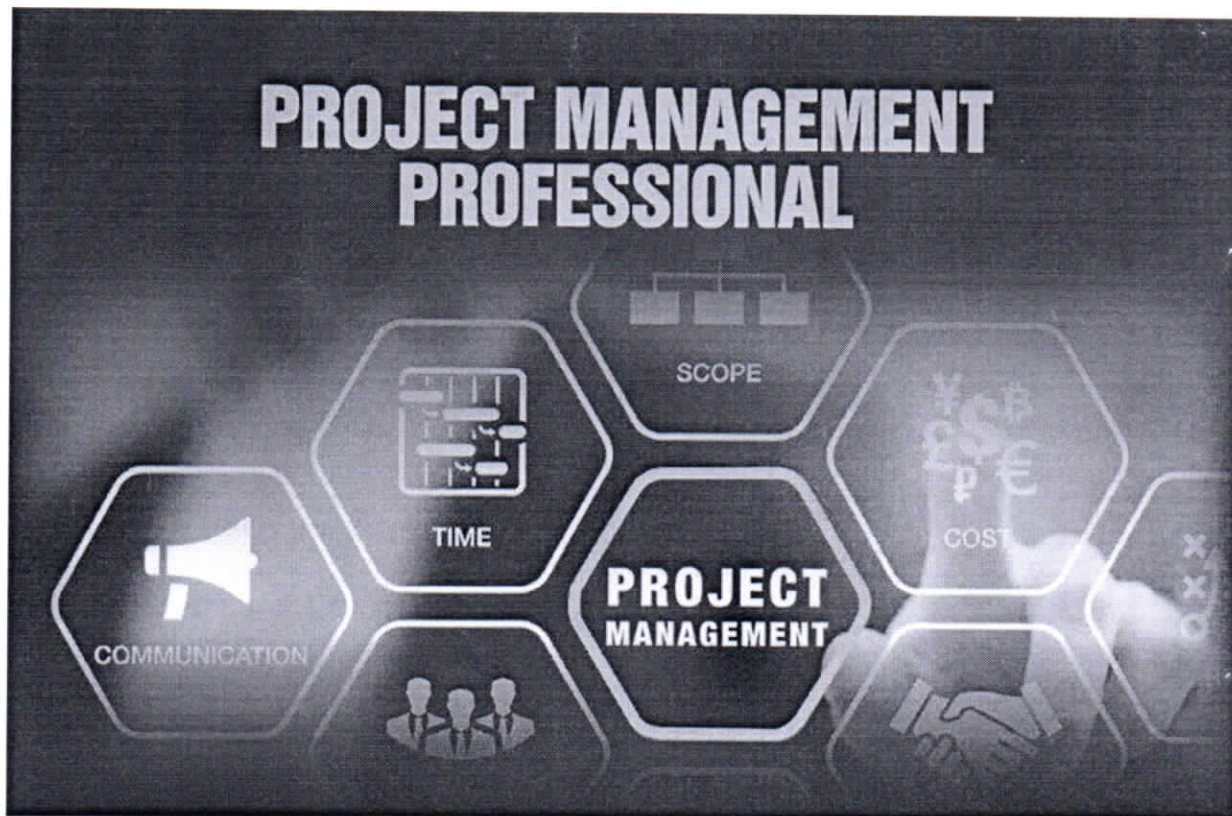
ACADEMIC YEAR 2021-2022

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PROJECT MANAGEMENT AND PROFESSIONAL

Course Description:


This course provides an in-depth introduction to project management principles, tools, and techniques essential for managing projects in a professional environment. Students will learn about project planning, execution, monitoring, and closing. The course includes lectures, case studies, and hands-on projects to equip students with practical skills for managing real-world projects effectively.

Course Objectives:

- Introduce fundamental concepts and terminology in project management.
- Teach students how to initiate, plan, execute, monitor, and close projects.
- Explain the roles and responsibilities of a project manager.
- Cover essential project management tools and techniques.

SYLLABUS

Sl.no	Topic	
1	Introduction to Project Management	<ul style="list-style-type: none">• Overview of project management• Key concepts and terminology
2	Project Initiation	<ul style="list-style-type: none">• Defining project scope and objectives• Identifying stakeholders• Hands-on lab: Project charter development
3	Project Planning	<ul style="list-style-type: none">• Developing a project plan• Work Breakdown Structure (WBS)• Hands-on lab: Creating a WBS
4	Scheduling and Time Management	<ul style="list-style-type: none">• Project scheduling techniques• Gantt charts and critical path method• Hands-on lab: Project scheduling with Gantt charts
5	Resource Management	<ul style="list-style-type: none">• Allocating and managing project resources• Team roles and responsibilities• Hands-on lab: Resource allocation planning


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Date: 18/05/2022

NOTICE

All the Students are hereby informed to attend the Certification course on "QUANTATIVE APTITUDE" from 25-May-22 onwards in Seminar Hall without fail. Attendance will be recorded every day.

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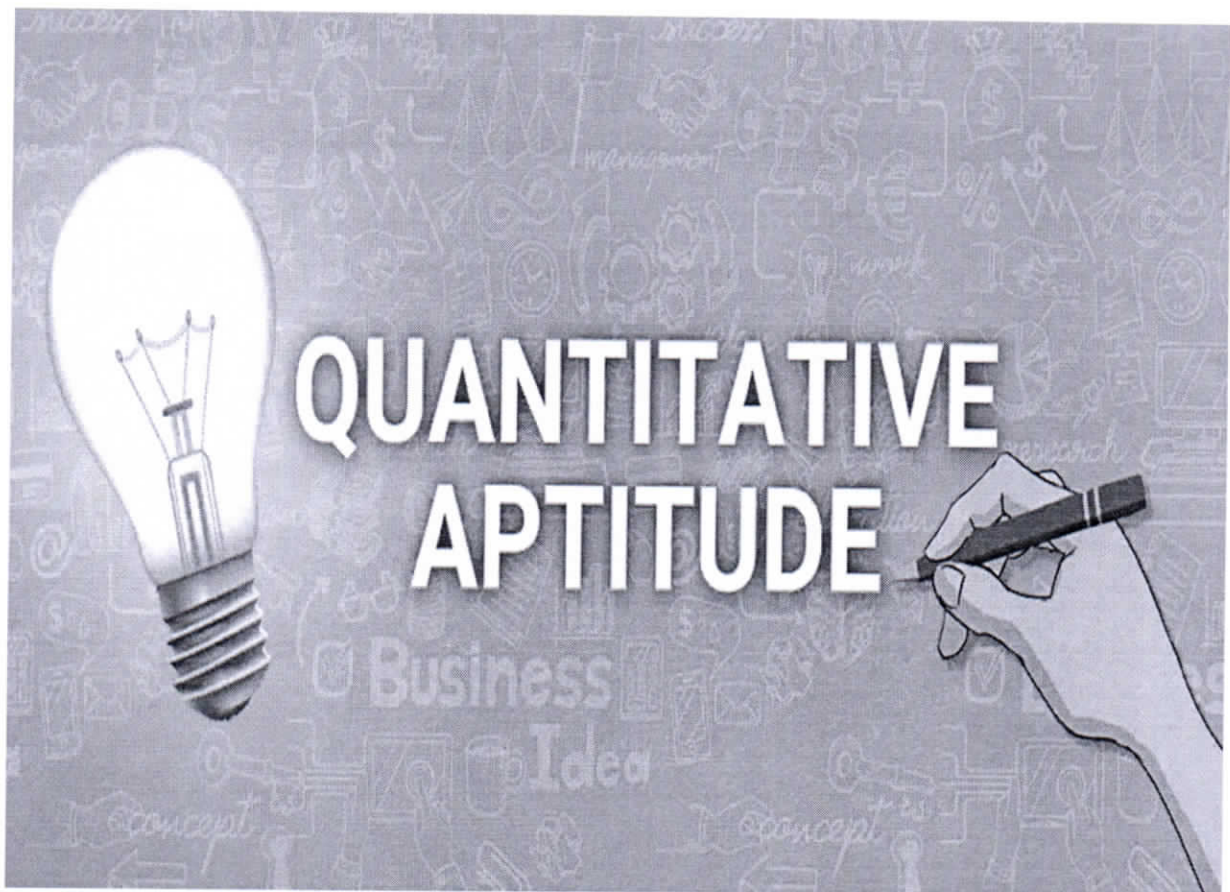
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QUANTITATIVE APTITUDE TRAINING

Course Description

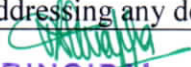
The Quantitative Aptitude Training Certification course covers essential mathematical and analytical skills required for various competitive exams and professional assessments. Participants will engage in a series of practical exercises designed to enhance problem-solving speed and accuracy.

Course Objective

The course aims to equip participants with the ability to solve quantitative problems efficiently and accurately. By the end of the training, participants will have developed strong analytical skills and be well-prepared for quantitative aptitude tests.

SYLLABUS

Sl. no	Topic	
1	Introduction to Numbers and Basic Operations	<ul style="list-style-type: none">➤ Introduction to numbers (natural numbers, integers, rational numbers, real numbers)➤ Place value system➤ Basic operations: addition, subtraction, multiplication, division➤ Properties of numbers and operations
2	Fractions, Decimals, and Percentages	<ul style="list-style-type: none">➤ Understanding fractions: types, operations (addition, subtraction, multiplication, division)➤ Conversion between fractions, decimals, and percentages➤ Percentage: basic concepts, applications, and problem-solving
3	Ratio and Proportion	<ul style="list-style-type: none">➤ Introduction to ratio and proportion➤ Applications of ratio and proportion➤ Proportionality concepts and problem-solving
4	Averages and Basic Statistics	<ul style="list-style-type: none">➤ Understanding averages (mean, median, mode)➤ Basic statistics: range, variance, standard deviation➤ Applications of averages and basic statistics in problem-solving
5	Time and Work	<ul style="list-style-type: none">➤ Time and work concepts➤ Work efficiency and time taken➤ Applications of time and work in problem-solving
6	Time, Speed, and Distance	<ul style="list-style-type: none">➤ Understanding speed, distance, and time➤ Relative speed and its applications➤ Problems on trains, boats, and streams
7	Simple and Compound Interest	<ul style="list-style-type: none">➤ Simple interest: concepts, formulas, applications➤ Compound interest: concepts, formulas, applications➤ Problems on interests and investments
8	Revision and Practice	<ul style="list-style-type: none">➤ Recap of all topics covered➤ Solving practice problems➤ Addressing any doubts or clarifications


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Date: 15/06/2022

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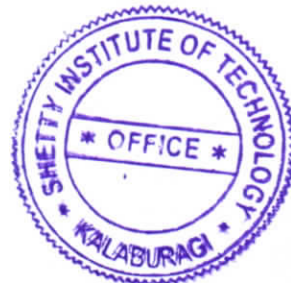
All the Students are hereby informed to attend the Certification course on "HANDS ON EXPERIENCE ON IOT" from 22-Jun-22 Seminar Hall. Every day, attendance will be taken.

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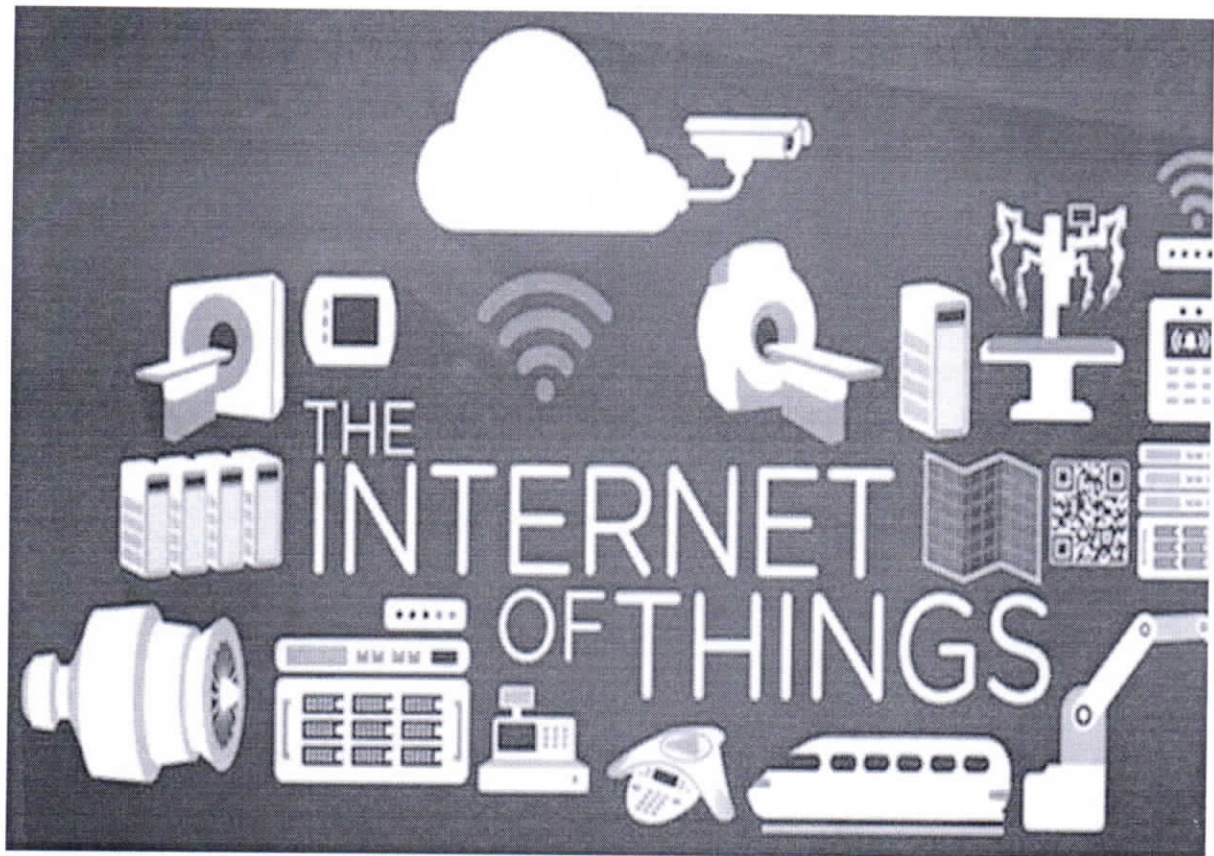
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HANDSON EXPERIENCE ON IOT

Course Description

The Certification course teaches the basics of Internet of Things (IoT) technology. Participants will learn how to create and manage IoT systems through practical exercises and projects.

Course Objective

The course aims to provide participants with the skills needed to understand and use IoT technology. By the end, they will be able to develop and deploy IoT solutions in real-world scenarios.

SYLLABUS

Sl. no	Topic	
1	Introduction to IoT	<ul style="list-style-type: none">➤ Overview of IoT➤ Definition and significance of IoT➤ Applications of IoT in various industries➤ IoT architecture and components
		<ul style="list-style-type: none">➤ Setting Up the IoT Development Environment.➤ Introduction to development boards (Arduino, Raspberry Pi)➤ Installing necessary software and tools (Arduino IDE, etc.)
		<ul style="list-style-type: none">➤ Setting Up Your First IoT Device➤ Introduction to Arduino board➤ Basic LED blinking program
2	Sensors and Actuators	<ul style="list-style-type: none">➤ Understanding Sensors and Actuators➤ Types of sensors (temperature, humidity, motion, etc.)➤ Types of actuators (motors, LEDs, buzzers, etc.)
		<ul style="list-style-type: none">➤ Working with Sensors➤ Connecting and reading data from sensors➤ Simple projects with sensors (e.g., temperature sensor)
3	Microcontroller Programming	<ul style="list-style-type: none">➤ Basics of Microcontroller Programming Introduction to Arduino programming➤ Writing and uploading code to Arduino
		<ul style="list-style-type: none">➤ Simple Microcontroller Projects Controlling actuators (e.g., LED, motor) with Arduino➤ Reading sensor data and controlling actuators based on sensor input


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4	Communication Protocols	<ul style="list-style-type: none"> ➤ Introduction to IoT Communication Protocols ➤ Overview of common protocols (HTTP, MQTT, CoAP, etc.) ➤ Wired vs. wireless communication (WiFi, Bluetooth, Zigbee)
		<ul style="list-style-type: none"> ➤ Implementing Communication ➤ Setting up WiFi module (e.g., ESP8266) ➤ Sending data to a cloud server or local network
5	Data Collection and Analysis (3 Hours)	<ul style="list-style-type: none"> ➤ Basics of Data Collection and Analysis ➤ Importance of data in IoT ➤ Tools for data collection and analysis (Excel, Python, IoT platforms)
		<ul style="list-style-type: none"> ➤ Collecting and Analyzing Data ➤ Sending sensor data to a cloud service (e.g., Thing Speak, Blynk) ➤ Visualizing data and performing basic analysis
6	IoT Security and Privacy (3 Hours)	<ul style="list-style-type: none"> ➤ Introduction to IoT Security ➤ Security challenges in IoT ➤ Best practices for securing IoT devices and data
		<ul style="list-style-type: none"> ➤ Implementing Basic Security Measures ➤ Securing communication with encryption ➤ Implementing basic authentication for IoT devices



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