

# **GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A)**

**NH – 16, CHAITANYA KNOWLEDGE CITY, GIET CAMPUS, RAJAHMUNDRI**

**Andhra Pradesh - 533296 Website: <http://www.giet.ac.in> [principal@gieta.ac.in](mailto:principal@gieta.ac.in)**

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**Date: 02-04-2020**

## **PROGRAM REPORT**

**Name of the Event: ArcGIS WORKSHOP FOR SPATIAL ANALYSIS AND MAPPING**

**Date: 20-01-2020 to 28-03-2020**

**Resource Persons: SAI KUMAR ALAMANDA, Assistant Professor, CE, GIET(A).**

Email.id: [saikumaralamanda@gieta.ac.in](mailto:saikumaralamanda@gieta.ac.in)

Contact number: 9886692214

**VIJAYA PINISETTY BHASKAR, Associate Professor, CE, GIET(A).**

Email.id: [vijayapinisettybhaskar@gieta.ac.in](mailto:vijayapinisettybhaskar@gieta.ac.in)

Contact number: 9861748488

**Name of the Coordinator: Mr. V. Rajesh**

**Number of students attended: 58**

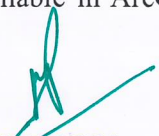
**Number of faculty involved: 4**

**Venue: MB Block AVEVA Lab.**

### **Objectives of the Program:**

- Provide an overview of GIS and its applications in spatial analysis and mapping.
- Explain fundamental GIS concepts, including spatial data, attributes, layers, and georeferencing.
- Introduce participants to the ArcGIS Desktop or ArcGIS Pro interface, including menus, toolbars, and data management tools.
- Teach participants how to import, organize, and manage spatial data (shapefiles, geodatabases, raster data, etc.) within ArcGIS.
- Cover techniques for creating visually appealing maps and customizing map layouts.
- Explain how to use symbols, labels, and colors effectively in map design.
- Explore a range of spatial analysis tools available in ArcGIS, such as buffer analysis, spatial queries, and overlay operations.

**Topics covered:**

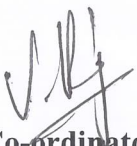
  
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**RAJAHMUNDRAPURAM 533 208**

- Introduction to ArcGIS and Geospatial Concepts
- Data and Management
- Spatial Analysis Techniques
- Advanced Mapping and Visualization
- Geoprocessing and Model Builder

### Outcomes of the Program:

On Completion of this course, the students will be able to

1. Participants will gain a solid understanding of ArcGIS software, its interface, and tools, enabling them to confidently navigate and utilize the platform for various geospatial Tasks
2. Participants will learn how to source, import, organize, and manage different types of geospatial data within ArcGIS, ensuring efficient data workflows and accessibility.
3. Participants will cultivate spatial thinking skills, allowing them to recognize patterns, trends, and relationships within geospatial data, leading to informed decision-making



**Co-ordinator**



**HOD-CE**

Head of the Department  
CIVIL ENGINEERING  
GODAVARI INSTITUTE OF  
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RAJAHMUNDRAM-533 296



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# **GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY(A)**

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Date: 20.04.2020.

## **PROGRAM REPORT**

**Name of the Event: INTRODUCTION TO INTERNET OF THINGS**

**Date: 25.01.2020 to 18.04.2020**

**Resource Persons: Dr. B. Sujatha,**

Professor, CSE, GIET-(A).

Email.id: [hod.cse@giet.ac.in](mailto:hod.cse@giet.ac.in)

Contact number: 8886668242

**Dr. J. M. S. V. Ravi Kumar,**

Professor, CSE, GIET-(A).

Email.id: [ravikumar.jmsv@giet.ac.in](mailto:ravikumar.jmsv@giet.ac.in)

Contact number: 9490503985

**Name of the Coordinator: Mr. D. Phani Kumar**

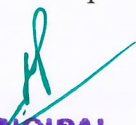
**Number of students attended: 100**

**Number of faculty involved: 5**

**Venue: ABC Lab, VB BLOCK, GIET-(A)**

### **Objectives of the Program:**

- Provide participants with a clear understanding of the Internet of Things (IoT) concept, its history, and its significance in the modern world.
- Explain when and how to use different protocols based on IoT application requirements.
- Demonstrate the process of integrating sensors and collecting data from the physical world.
- Provide hands-on experience with setting up and programming sensors for data acquisition.
- Explain the importance of selecting the right connectivity solution for specific IoT applications.
- Guide participants through the development of a simple IoT application or prototype.

  
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**Topics covered:**

- Introduction to IoT
- IoT Hardware and Sensors
- IoT Communication Protocols and Connectivity
- IoT Data Processing and Analytics
- IoT Security and Privacy

**Outcomes of the Program:**

**On Completion of this course, the students will be able to**

- To design and implement end-to-end IoT systems, including hardware selection, sensor integration, data communication, and cloud integration.
- Understanding of IoT security challenges and the knowledge to implement security measures such as encryption, authentication, and secure firmware updates.
- To address privacy concerns associated with IoT data collection and transmission.
- To configure and manage cloud-based IoT solutions using platforms like AWS IoT, Azure IoT, or Google Cloud IoT.
- Learn Skill in building functional IoT prototypes using hardware components, sensors, actuators, and software development tools

**Coordinator**

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**HOD-CSE**

**Head of the Department**  
**Computer Science & Engineering**  
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**Date:19/10/2020**

## **PROGRAM REPORT**

**Name of the Event : TRAINING PROGRAM ON ARDUINO**

**Date : 12-10-2020 to 16-10-2020**

**Resource Persons: Mr.K.Seetharamaraju, Assistant Professor ECE, GIET(A)**

Email Id : [seetaramaraju@giет.ac.in](mailto:seetaramaraju@giет.ac.in)

Contact number : 9491440602

**Mrs.M.Saritha Devi, Assistant Professor ECE, GIET(A)**

Email Id : [msaritha@giет.ac.in](mailto:msaritha@giет.ac.in)

Contact number : 9502046428

**Name of the coordinator : Mrs.M.Saritha Devi**

**Number of students attended : 65**

**Number of faculty involved: 3**

**Venue : Main Block, Simulation Lab**

### **Objectives of the Program :**

- To know the basic knowledge on arduino
- To impart the knowledge to the students with fundamentals of electronics
- Learn arduino IDE programming
- Discover how to work control structures and functions

### **Topics covered :**

- Introduction to Arduino.
- Basics of Electronics.
- Arduino IDE and Programming.
- Digital Input/Output.



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- Analog Input/Output.
- Control Structures and Functions

### **Outcome of the Program :**

On Completion of this course, the students will be able to

1. Develop a clear understanding of what Arduino is and how it can be used for various applications.
2. Acquire fundamental knowledge of electronic components, circuits, and basic electronics principles.
3. Learn to interface with various sensors and actuators, such as LEDs, motors, and sensors, to create interactive projects

  
**Coordinator**

  
**HOD-ECE**

  
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Head of the Department  
Department of  
ELECTRONICS & COMMUNICATION ENGG.  
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Date:28-03-2020

**PROGRAM REPORT**

**Name of the Event: A Workshop on Designing of Hybrid power plant ( Solar and wind)  
of 2.2KW**

**Date: 20-01-2020 to 28-03-2020**

**Resource Persons: Dr. D. Ravi Kishore, Professor & HOD-EEE, GIET(A)**

Email ID: [hod.eee@giet.ac.in](mailto:hod.eee@giet.ac.in)

Contact No: 8886668239

**Mr. V. Suresh**

Assistant Professor, EEE, GIET(A) EEE

Email.id: [sureshvendoti@giet.ac.in](mailto:sureshvendoti@giet.ac.in)

Contact number: 9966477266

**Name of the Coordinator: Mr. V. Suresh**

**Number of students attended: 60**

**Number of faculty involved: 5**

**Venue: Power Electronics Lab, Main Block**

**Objectives of the Program:**

- To Impart the Knowledge to the students with commissioning of Solar Power
- Learn Components of Solar power Plant
- Harvesting Solar energy

  
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**Topics covered:**

- Introduction to Hybrid power plants
- Design of PV cell
- Design of inverter

**Outcomes of the Program:**

At the end of this course, the student will be able to

1. Understand the importance of Solar energy.
2. Understand the components of Solar plant
3. Design Solar power plant

  
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**HOD-EEE**  
**Head of the Department**  
**Electrical & Electronics Engg.**  
**GIET(A), RAJAMAHENDRAVARAM**

**Date: 02-03-2020**

### **PROGRAM REPORT**

**Name of the Event: ENHANCING ENGINEERING SKILLS THROUGH FAMILY VALUES AND RELATIONSHIPS**

**Date: 24.02.2020 to 28.02.2020**

**Resource Persons:** Dr. Ratna Priyadarshani, Assistant Professor, HBS, GIET(A).

Email.id: [ratnapriya@gieta.ac.in](mailto:ratnapriya@gieta.ac.in)

Contact number: 7883363216

**Name of the Coordinator:** S. Sunila Sailaja

**Number of students attended:** 73

**Number of faculty involved:** 3

**Venue:** RK Block Seminar Hall.

**Objectives of the Program:**

- Educate engineering students about Ayurvedic principles and practices to encourage a holistic approach to health. The objective is to help students understand that physical, mental, and emotional well-being are interconnected and that Ayurveda provides tools to maintain this balance.
- Equip students with Ayurvedic techniques and remedies to manage stress, anxiety, and improve mental clarity. Stress is a common issue among engineering students, and Ayurveda offers natural methods such as meditation, yoga, and herbal remedies to enhance mental well-being.
- Teach students about Ayurvedic dietary guidelines and home remedies that can boost immunity and prevent common ailments. By adopting Ayurvedic practices like consuming immunity-boosting herbs and maintaining a balanced diet, students can reduce their vulnerability to illnesses.
- Encourage engineering students to make healthier lifestyle choices, including daily routines (Dinacharya), seasonal adjustments (Ritucharya), and mindful eating habits. These Ayurvedic principles help individuals align their activities with natural rhythms and promote well-being.

  
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- Foster an awareness of the environment and sustainable living practices in engineering students through Ayurveda. Ayurveda emphasizes the importance of a harmonious relationship with nature, which can inspire students to consider eco-friendly choice

#### Topics covered:

- Introduction to Ayurveda
- Ayurvedic Dietary Practices
- Stress Management through Ayurveda
- Immunity and Preventive Care
- Ayurvedic Daily Routines and Lifestyle

#### Outcomes of the Program:

On Completion of this course, the students will be able to

- Following Ayurvedic daily routines helps individuals maintain balance in their physical and mental health. By aligning their activities with natural rhythms (Dinacharya), individuals can experience increased energy, improved digestion, better sleep patterns, and enhanced overall well-being.
- Ayurvedic practices like meditation, yoga, and daily self-care routines help individuals manage stress effectively. This leads to reduced anxiety, greater emotional stability, and improved mental clarity, enabling individuals to navigate the demands of their daily lives with greater ease.
- By adopting Ayurvedic lifestyle practices, individuals can strengthen their immune systems and reduce the risk of chronic illnesses. This preventive approach to health can lead to a longer and healthier life, as it promotes immunity and resistance to common ailments.

  
Co-ordinator

  
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**HOD-HBS**  
Head of the Department  
Department of  
**HUMANITIES & BASIC SCIENCES**  
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Date: 04-05-2020

## **PROGRAM REPORT**

**Name of the Event:** INTRODUCTION TO MOBILE APP DEVELOPMENT

**Date:** 25-01-2020 to 02-05-2020

**Resource Person:** Mr. K. Praveen Kumar,

Assistant Professor, Godavari Institute of Engineering &

Technology Email Id: praveenkumar@giel.ac.in

Contact Number: 9247766192

**Name of the Coordinator:** Mr. L.V.Kiran

**Number of students attended:** 30

**Number of faculty involved:** 5

**Venue:** Online Mode

### **Objectives of the program:**

- To facilitate students to understand android SDK
- To help students to gain a basic understanding of Android application development
- To inculcate working knowledge of Android Studio development tool

### **Topics covered:**

- Introduction to Mobile App Development
- Mobile App Design Principles
- Mobile App Development Platforms
- Front-End Development
- Back-End Development
- Mobile App Programming
- Database Integration
- Mobile App Testing and Debugging



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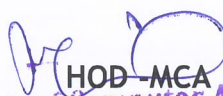
## Outcomes of the program:

On Completion of this course, the students will be able to

- Understand the mobile app development landscape
- Design user-friendly and visually appealing mobile app interfaces
- Develop mobile apps using Android
- Debug and test mobile apps effectively using emulators and real devices.
- Publish and distribute apps on app stores while managing updates and version control

  
Coordinator

  
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**HOD-MCA**  
Head, Dept. of Computer Applications  
Godavari Institute of Engg & Technology  
NH-16, Chaitanya Knowledge City  
Rajahmundry - 533296

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**Date: 02-08-2019**

## **PROGRAM REPORT**

**Name of the Event: A COMPREHENSIVE WORKSHOP ON SURVEYING,  
MAPPING, AND DATA COLLECTION**

**Date: 22-07-2019 to 27-07-2019**

**Resource Persons: VIJAYA PINISETTY BHASKAR, Assistant Professor, CE, GIET(A).**

Email.id: [vijaypinisettybhaskar@giel.ac.in](mailto:vijaypinisettybhaskar@giel.ac.in)

Contact number: 9886693211

**RAJENDRA ALLA, Associate Professor, CE, GIET(A).**

Email.id: [rajendraalla@giel.ac.in](mailto:rajendraalla@giel.ac.in)

Contact number: 9861744468

**Name of the Coordinator: Mr. A. Rajendra,**

**Number of students attended: 56**

**Number of faculty involved: 5**

**Venue: MB Block AVEVA Lab.**

### **Objectives of the Program:**

- The primary objective is to ensure participants become proficient in operating Total Stations, including instrument setup, calibration, and data collection techniques.
- Train participants to make accurate and precise measurements of distances, angles, and elevations using Total Stations.
- Provide a strong foundation in surveying principles, including coordinate systems, datums, and map projections.
- Teach participants how to process and analyze survey data collected with Total Stations using software such as AutoCAD, Civil 3D, or other GIS and surveying software.
- Explain sources of errors in surveying measurements and techniques for error detection and Correction

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### Topics covered:

- Introduction to Surveying and Total Station
- Instrument Setup and Calibration
- Data Collection and Field Procedures
- Data Processing and Analysis
- Advanced Applications and Case Studies

### Outcomes of the Program:

On Completion of this course, the students will be able to

1. Participants will acquire practical skills in conducting precise angle and distance measurements, as well as implementing fieldwork techniques for different types of surveys.
2. Participants will develop a solid understanding of coordinate systems, projection and georeferencing principles, ensuring that their survey data aligns accurately with existing geographic data.
3. Participants will understand the ethical responsibilities associated with surveying activities, including respecting property rights and ensuring safety during fieldwork.

1.  P. Vijaya Bhaskar  
2.  A. Rajendra  
Co-ordinator



HOD-CE

Head of the Department  
CIVIL ENGINEERING  
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Date: 30.09.2019

## **PROGRAM REPORT**

**Name of the Event: INTRODUCTION TO ARTIFICIAL INTELLIGENCE &  
MACHINE LEARNING**

**Date: 06.07.2019 to 28.09.2019**

**Resource Persons: Dr. B. Sujatha,**

Professor, CSE, GIET-(A).

Email.id: [hod.cse@giet.ac.in](mailto:hod.cse@giet.ac.in)

Contact number: 8886668242

**Dr. J. M. S. V. Ravi Kumar,**

Professor, CSE, GIET-(A).

Email.id: [ravikumar.jmsv@giet.ac.in](mailto:ravikumar.jmsv@giet.ac.in)

Contact number: 9490503985

**Name of the Coordinator: Mr. D. Phani Kumar**

**Number of students attended: 100**

**Number of faculty involved: 5**

**Venue: ABC Lab, VB BLOCK, GIET-(A)**

### **Objectives of the Program:**

- Provide participants with a foundational understanding of what artificial intelligence and machine learning are and their significance in various industries.
- Introduce participants to core machine learning concepts, including supervised learning, unsupervised learning, and reinforcement learning.
- Offer hands-on experience by guiding participants through the process of setting up a machine learning development environment.
- Provide practical exercises using popular ML libraries and tools, such as scikit-learn and Jupyter notebooks.
- Focus on supervised learning, where participants learn to build predictive models from labeled data.
- Introduce unsupervised learning and clustering algorithms

  
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- Show participants how to use clustering techniques to group data points with similar characteristics

**Topics covered:**

- Introduction to AI and ML
- Data Preprocessing and Exploration
- Machine Learning Algorithms
- Deep Learning and Neural Networks
- AI Ethics and Real-world Applications

**Outcomes of the Program:**

**On Completion of this course, the students will be able to**

- Ability to Build Predictive Models.
- Understanding of Deep Learning techniques.
- Understanding of ethical considerations in AI and ML, allowing you to design and deploy models that are fair, unbiased, and transparent.
- Apply AI and ML techniques to solve real-world problems across industries.
- Learn how to analyze data, extract meaningful patterns, and make data-driven decisions.

**Coordinator**

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**HOD-CSE**

**Head of the Department**  
**Computer Science & Engineering**  
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**Date:29/07/2019**

## **PROGRAM REPORT**

**Name of the Event : Basic Course on PLC Programming**

**Date : 22-07-2019 to 27-07-2019**

**Resource Persons : Mr. CH.Rajesh Babu, Assistant Professor ECE, GIET(A)**

Email Id : [chrajesh@giel.ac.in](mailto:chrajesh@giel.ac.in)

Contact number : 9985979377

**Mr. D Gowri sankara Rao, Assistant Professor ECE, GIET(A)**

Email Id : [gowrisankar@giel.ac.in](mailto:gowrisankar@giel.ac.in)

Contact number : 9133767432

**Name of the coordinator : Mr. D Gowri sankara Rao**

**Number of students attended : 53**

**Number of faculty involved: 5**

**Venue : Main Block, Simulation Lab**

**Objectives of the Program :**

- Advanced semiconductor technologies
- To impart the knowledge to the students PLC Programming
- Learn SOC toolboxes operations
- Discover how to work with low power design

**Topics covered :**

- Introduction to PLC Design and Trends
- Advanced Semiconductor Technologies
- Design Automation and Tools
- System-on-Chip Design Trends

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- Low Power Design and Energy Efficiency
- Design for Testability and Reliability

**Outcome of the Program :**

On Completion of this course, the students will be able to

1. Understanding of PLC Design Fundamentals
2. Knowledge of Advanced Semiconductor Technologies
3. Proficiency in Design Automation Tools



**Coordinator**

  
**HOD-ECE**

Head of the Department  
Department of  
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Date: 27-07-2019

## **PROGRAM REPORT**

**Name of the Event: A Workshop on Commissioning of 1KW Solar power plant**

**Date: 22-07-2019 to 27-07-2019**

**Resource Persons: Dr. D. Ravi Kishore, Professor & HOD-EEE, GIET(A)**

Email ID: [hod.eee@giet.ac.in](mailto:hod.eee@giet.ac.in)

Contact No: 8886668239

**Mr. V. Suresh**

Assistant Professor, EEE, GIET(A) EEE

Email.id: [sureshvendoti@giet.ac.in](mailto:sureshvendoti@giet.ac.in)

Contact number: 9966477266

**Name of the Coordinator: Mr. V. Suresh**

**Number of students attended: 60**

**Number of faculty involved: 3**

**Venue: Power Electronics Lab, Main Block**

### **Objectives of the Program:**

- To Impart the Knowledge to the students with commissioning of Solar Power
- Learn Components of Solar power Plant
- Harvesting Solar energy

### **Topics covered:**

- Introduction to commissioning of Solar Power

  
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● Harvesting Solar energy

**Outcomes of the Program:**

At the end of this course, the student will be able to

1. Understand the process of commissioning.
2. Understand the components of Solar plant

  
**Co-Ordinator**

  
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**HOD-EEE**  
Head of The Department  
Electrical & Electronics Engg.  
GIET(A), RAJAMAHENDRAVARAM

**Date: 07-10-2019**

### **PROGRAM REPORT**

**Name of the Event: INTEGRATING AYURVEDIC HOME REMEDIES INTO  
ENGINEERING STUDENTS LIFESTYLES**

**Date: 01.10.2019 to 05.10.2019**

**Resource Persons: Dr. Ratna Priyadarshani, Assistant Professor, HBS, GIET(A).**

Email.id: [ratnapriya@giet.ac.in](mailto:ratnapriya@giet.ac.in)

Contact number: 7883363216

**Name of the Coordinator: S. Sunila Sailaja**

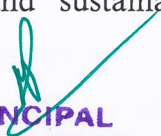
**Number of students attended: 60**

**Number of faculty involved: 5**

**Venue: RK Block Seminar Hall.**

**Objectives of the Program:**

- Educate engineering students about Ayurvedic principles and practices to encourage a holistic approach to health. The objective is to help students understand that physical, mental, and emotional well-being are interconnected and that Ayurveda provides tools to maintain this balance.
- Equip students with Ayurvedic techniques and remedies to manage stress, anxiety, and improve mental clarity. Stress is a common issue among engineering students, and Ayurveda offers natural methods such as meditation, yoga, and herbal remedies to enhance mental well-being.
- Teach students about Ayurvedic dietary guidelines and home remedies that can boost immunity and prevent common ailments. By adopting Ayurvedic practices like consuming immunity-boosting herbs and maintaining a balanced diet, students can reduce their vulnerability to illnesses.
- Encourage engineering students to make healthier lifestyle choices, including daily routines (Dinacharya), seasonal adjustments (Ritucharya), and mindful eating habits. These Ayurvedic principles help individuals align their activities with natural rhythms and promote well-being.
- Foster an awareness of the environment and sustainable living practices in

  
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engineering students through Ayurveda. Ayurveda emphasizes the importance of a harmonious relationship with nature, which can inspire students to consider eco-friendly choice

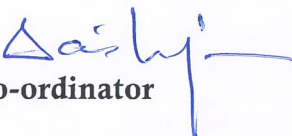
**Topics covered:**

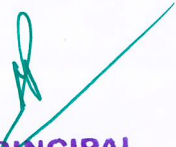
- Introduction to Ayurveda
- Ayurvedic Dietary Practices
- Stress Management through Ayurveda
- Immunity and Preventive Care
- Ayurvedic Daily Routines and Lifestyle

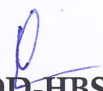
**Outcomes of the Program:**

On Completion of this course, the students will be able to

- Following Ayurvedic daily routines helps individuals maintain balance in their physical and mental health. By aligning their activities with natural rhythms (Dinacharya), individuals can experience increased energy, improved digestion, better sleep patterns, and enhanced overall well-being.
- Ayurvedic practices like meditation, yoga, and daily self-care routines help individuals manage stress effectively. This leads to reduced anxiety, greater emotional stability, and improved mental clarity, enabling individuals to navigate the demands of their daily lives with greater ease.
- By adopting Ayurvedic lifestyle practices, individuals can strengthen their immune systems and reduce the risk of chronic illnesses. This preventive approach to health can lead to a longer and healthier life, as it promotes immunity and resistance to common ailments.

  
Co-ordinator

  
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**HOD-HBS**  
Head of the Department  
Department of  
**HUMANITIES & BASIC SCIENCES**  
**GODAVARI INSTITUTE OF**  
**ENGINEERING & TECHNOLOGY**  
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**NH – 16, CHAITANYA KNOWLEDGE CITY, GIET CAMPUS, RAJAHMUNDY**

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Date: 07-10-2019

## **PROGRAM REPORT**

**Name of the Event:** WEB DEVELOPMENT USING PHP

**Date:** 06-07-2019 to 05-10-2019

**Resource Person:** Mr.L.V.Kiran

Assistant Professor, Godavari Institute of Engineering & Technology

Email Id: lvkiran@giel.ac.in

Contact Number: 9985392672

**Name of the Coordinator:** Mr. K. Praveen Kumar

**Number of students attended:** 40

**Number of faculty involved:** 5

**Venue:** RK Block, MCA Lab

### **Objectives of the program:**

- How to use PHP's built-in server to serve static resources.
- How to use PHP to add some dynamic aspects to our pages.
- How to use HTML forms.
- The difference between GET and POST requests.
- How to use cookies to store some data in the browser and pass it to the next request.

### **Topics covered:**

- Introduction to Web Development and PHP
- PHP Fundamentals
- Working with HTML and PHP
- Forms and User Input Handling
- PHP Functions

  
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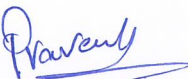
- Working with Databases and MySQL
- 

- Session Management and Cookies
- File Handling and Uploading

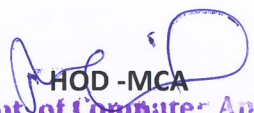
### **Outcomes of the program:**

On Completion of this course, the students will be able to

- Develop dynamic web applications using PHP and integrate them with HTML.
- Collect, validate, and process user input through HTML forms.
- Implement basic user authentication and session management using PHP.
- Perform CRUD (Create, Read, Update, Delete) operations on a MySQL database using PHP.
- Build and deploy functional web applications that interact with databases.

  
**Coordinator**

  
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**HOD -MCA**  
**Head, Dept. of Computer Applications**  
**Godavari Institute of Engg & Technology**  
**NH-16, Chaitanya Knowledge City**  
**Rajahmundry - 533296**

# **GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A)**

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**Date: 02-04-2020**

## **PROGRAM REPORT**

**Name of the Event: ArcGIS WORKSHOP FOR SPATIAL ANALYSIS AND MAPPING**

**Date: 20-01-2020 to 28-03-2020**

**Resource Persons: SAI KUMAR ALAMANDA, Assistant Professor, CE, GIET(A).**

Email.id: [saikumaralamanda@gieta.ac.in](mailto:saikumaralamanda@gieta.ac.in)

Contact number: 9886692214

**VIJAYA PINISETTY BHASKAR, Associate Professor, CE, GIET(A).**

Email.id: [vijayapinisettybhaskar@gieta.ac.in](mailto:vijayapinisettybhaskar@gieta.ac.in)

Contact number: 9861748488

**Name of the Coordinator: Mr. V. Rajesh**

**Number of students attended: 58**

**Number of faculty involved: 4**

**Venue: MB Block AVEVA Lab.**

### **Objectives of the Program:**

- Provide an overview of GIS and its applications in spatial analysis and mapping.
- Explain fundamental GIS concepts, including spatial data, attributes, layers, and georeferencing.
- Introduce participants to the ArcGIS Desktop or ArcGIS Pro interface, including menus, toolbars, and data management tools.
- Teach participants how to import, organize, and manage spatial data (shapefiles, geodatabases, raster data, etc.) within ArcGIS.
- Cover techniques for creating visually appealing maps and customizing map layouts.
- Explain how to use symbols, labels, and colors effectively in map design.
- Explore a range of spatial analysis tools available in ArcGIS, such as buffer analysis, spatial queries, and overlay operations.

**Topics covered:**

  
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- Introduction to ArcGIS and Geospatial Concepts
- Data and Management
- Spatial Analysis Techniques
- Advanced Mapping and Visualization
- Geoprocessing and Model Builder

### Outcomes of the Program:

On Completion of this course, the students will be able to

1. Participants will gain a solid understanding of ArcGIS software, its interface, and tools, enabling them to confidently navigate and utilize the platform for various geospatial Tasks
2. Participants will learn how to source, import, organize, and manage different types of geospatial data within ArcGIS, ensuring efficient data workflows and accessibility.
3. Participants will cultivate spatial thinking skills, allowing them to recognize patterns, trends, and relationships within geospatial data, leading to informed decision-making

1.  A. Saikumar
2.  P. Vijay Bhaskar

Co-ordinator



HOD-CE

/ Head of the Department  
CIVIL ENGINEERING  
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