



MALLA REDDY COLLEGE OF ENGINEERING

(Approved by AICTE-New Delhi, Affiliated to JNTUH-Hyderabad)

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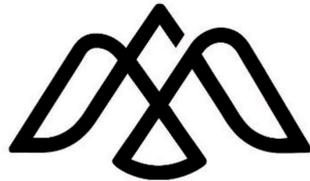
A Report of
National level 5 Days Faculty Development Program
On
Python Programming

Organized by:

Department of CSE (AI & ML)

02nd to 06th January 2023

Target Audience: Teaching Faculties



In association with

Institution Innovation Council and Plexus Club

Date: 02-01-2023 to 06-01-2023.

Mode : Online



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ABOUT THE INSTITUTION



MRCE, BLOCK-A

Malla Reddy College of Engineering (Formerly CM Engineering College) has been established under the aegis of the Malla Reddy Group of institutions in the year 2005, a majestic empire, founded by chairman Sri. Ch. Malla Reddy. He has been in the field of education for the last 22 years with the intention of spearheading quality education among children from the school level itself.

Since the beginning Mr. Malla Reddy has endeavoured to ensure quality education and carved a niche for himself by managing this group of institutions.

Malla Reddy College of Engineering has been laid upon a very strong foundation and has ever since been excelling in every aspect. The bricks of this able institute are certainly the adept management, the experienced faculty, the selfless non-teaching staff and of course the students.



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INSTITUTION VISION:

To emerge as a centre of Excellence for producing professionals who shall be the leaders in technology innovation, entrepreneurship, and management and in turn contribute for advancement of society and human kind.

INSTITUTION MISSION:

- To provide an environment of learning in emerging technologies.
- To nurture a state of art teaching learning process and R&D culture.
- To foster networking with Alumni, Industry, Institutes of repute and other stakeholders for effective interaction.
- To practice and promote high standards of ethical values through societal commitment.

VISION OF THE DEPARTMENT

To teach excellence education for undergraduates in the field of Artificial Intelligence and Machine Learning in the technological-embedded domain and make professionals who help the better cause of society.

MISSION OF THE DEPARTMENT

- Impart demanding training to create knowledge through the state-of-the-art ideas and skills in Artificial Intelligence and Machine Learning.
- Facilitate the students to adapt to the rapidly changing technologies by providing cutting-edge laboratories and facilities.
- Kick off the research and training, paying special attention to the essential skills of the subsequent generation's workforce.



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ABOUT CSE (AI&ML) DEPARTMENT

The Department of Artificial Intelligence and Machine Learning (AI&ML) was founded in 2020 with the goal of providing high-quality higher education to as many students as possible and to satisfy the enormous need for highly trained professionals in the industry. The Department of AI&ML offers a B. Tech program in Computer Science and Engineering (Artificial Intelligence and Machine Learning). The curriculum is created to give students a firm foundation in AI and ML principles and concepts as well as practical experience in handling situations from the real world. Programming languages, computer architecture, machine learning, natural language processing, artificial intelligence, and deep learning are some of the department's core subjects. Students are continuously trained with an attitude of excellence to overcome automation challenges across all industries and provide new context and background to improve the agile process with the assistance of great laboratory facilities and well-qualified faculty members. Because of the program's interdisciplinary nature, it draws on knowledge and coursework from many different disciplines, including computer science, mathematics, and statistics. Students will have the chance to take part in research projects in addition to the required courses, both inside the department and with other departments and organizations. Students who complete the B.Tech. programme in Computer Science and Engineering (Artificial Intelligence and Machine Learning) will be well-versed in the theories and methods of AI & ML and will be qualified for employment in a range of fields and positions, including data analysis, software development, and research.



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Poster

**DEPARTMENT OF CSE(AIML)
ORGANIZES**

FACULTY DEVELOPMENT PROGRAM ON python programming

SPEAKERS

DAY 1: Hemalatha , Professor, VEL TECH Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
DAY 2: Mr. Srinivas, Associate Professor, MRIET
DAY 3: Dr. Anantha Raman G.R, Professor, MRIET
DAY 4: Dr. M. Narender, Associate Professor, MRCEW
DAY 5: Dr. M. Narender, Associate Professor, MRCEW

Date: 2nd Jan 2023 – 6th Jan 2023

Co- Convener Dr. Anantha Raman G R HOD - CSE(AIML), MRCE	Convener Dr. Sridhar ReddyPrincipal, MRCE
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ABOUT THE EVENT

The Department of Computer Science and Engineering successfully organized a **5-Day National Level Faculty Development Programme (FDP) on “Python Programming and Its Applications”** from **02nd to 06th January 2023** in online mode.

Python has emerged as one of the most powerful and versatile programming languages, widely used in software development, data analysis, automation, artificial intelligence, and scientific research. The FDP was designed to strengthen programming foundations and provide hands-on exposure to Python tools and libraries, enabling faculty members to integrate Python-based solutions into teaching, research, and academic projects.

The program brought together faculty members from engineering, science, management, and allied disciplines from various institutions across the country.

In the following days, the sessions covered diverse and impactful topics such as:

Day 1 – Foundations of Python Programming

Session 1: Introduction to Programming and Python

An overview of programming fundamentals and the evolution of Python, highlighting its simplicity, versatility, and widespread adoption across domains.

Session 2: Python Environment Setup and Basic Syntax

Hands-on introduction to installing Python, using IDEs, and understanding Python syntax, variables, keywords, and basic input/output operations.

Session 3: Data Types and Operators in Python

Exploration of built-in data types, type conversion, and operators used for arithmetic, logical, and relational operations.



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Day 2 – Core Python Programming Concepts

Session 1: Control Structures and Functions

Understanding decision-making statements, loops, and user-defined functions for modular and reusable code development.

Session 2: Python Data Structures

In-depth discussion on lists, tuples, sets, and dictionaries, including their operations and real-world use cases.

Session 3: Strings and Pattern Handling

Working with string manipulation, slicing, formatting, and basic pattern matching techniques.

Day 3 – File Handling and Exception Management

Session 1: File Handling in Python

Reading from and writing to files, working with different file modes, and handling real-world data files.

Session 2: Exception Handling and Debugging

Introduction to errors, exceptions, and debugging techniques to build robust and error-free programs.

Session 3: Modules, Packages, and Virtual Environments

Understanding Python's modular architecture, using built-in and external libraries, and managing virtual environments.

Day 4 – Data Analysis and Visualization Using Python

Session 1: NumPy for Numerical Computing

Working with arrays, mathematical operations, and performance optimization using NumPy.



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Session 2: Pandas for Data Analysis

Data manipulation, cleaning, filtering, and aggregation using Data Frames for structured datasets.

Session 3: Data Visualization Using Matplotlib and Seaborn

Creating meaningful plots and charts to visualize data patterns and insights effectively.

Day 5 – Applications of Python in Teaching and Research

Session 1: Automation and Scripting with Python

Using Python for task automation, report generation, and workflow optimization in academic and administrative tasks.

Session 2: Python for Research and Academic Projects

Applying Python in data analysis, simulations, research problem-solving, and interdisciplinary projects.

Session 3: Open Discussion, Q&A, and Feedback

An interactive session for clarifying doubts, sharing experiences, and discussing best practices and future learning paths.

The interactive nature of the FDP stood out as a strong point. Faculty participants actively engaged in discussions, shared classroom challenges, and collaborated on innovative teaching practices. By the end of the week, participants expressed that the FDP had greatly enriched with updated knowledge on **cutting-edge developments in Artificial Intelligence and to enhance their ability to integrate modern AI techniques** into teaching, research, and real-world applications

The program concluded with a **valedictory session**, during which participants shared their feedback, describing the FDP as “enlightening,” “practically useful,” and “highly



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motivating.” Certificates of participation were distributed to all faculty members, acknowledging their commitment to continuous learning and professional growth.

In summary, the FDP on “**Python Programming and Its Applications**” was a resounding success. It not only enhanced the professional competence of faculty members in programming and problem-solving but also equipped them with effective strategies to mentor and prepare students for a technology-driven and programming-intensive world. The event marked a significant step toward strengthening the integration of practical programming skills within academia, reaffirming MRCE’s commitment to academic excellence, innovation, and holistic development.

FDP – AIM, PURPOSE AND IMPORTANCE

AIM

The aim of this Faculty Development Programme is to equip faculty members with a strong foundation and practical proficiency in Python programming, enabling them to develop efficient programs, analyse and visualize data, automate tasks, and effectively integrate Python-based tools and applications into teaching, research, and academic problem-solving.

PURPOSE

The purpose of this FDP is to provide a comprehensive platform where participants can:

- . Understand the core concepts of Python programming, including syntax, data structures, control flow, and modular programming.
- Gain exposure to real-world and industry-relevant applications of Python in areas such as data analysis, automation, web development, and research computing.
- Enhance their ability to design and implement Python-based academic and research projects using appropriate libraries and tools.
- Learn to use Python frameworks, libraries, and development environments that support teaching, learning, data analysis, and research productivity.



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- Foster collaboration among faculty members by sharing best practices and exploring innovative ways to integrate Python programming into curriculum design, teaching methodologies, and interdisciplinary research.

IMPORTANCE

This FDP holds significant importance as it:

- Helps faculty stay aligned with modern programming practices and the growing role of Python across diverse domains.
- Strengthens the academic ecosystem by encouraging innovative, hands-on teaching strategies supported by Python-based tools and applications.
- Enhances faculty competency to guide students in programming assignments, projects, internships, and research involving Python.
- Promotes the development of quality academic projects, research work, software solutions, and interdisciplinary applications using Python.
- Prepares educators to create a future-ready learning environment where students acquire problem-solving, computational thinking, and industry-relevant programming skills.
- Helps institutions integrate Python programming into curriculum design, research initiatives, and technological innovation, contributing to academic excellence and societal impact.

In essence, this FDP was not just about academic enrichment but about transforming faculty into catalysts who can inspire and guide students to thrive in the competitive global environment. It highlighted MRCE's commitment to continuous faculty development, innovation in education, and the holistic preparation of students to meet the challenges of the future workforce.



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SUMMARY

The National Level Faculty Development Programme on “**Python Programming and Its Applications**”, organized by the Department of Computer Science and Engineering, Malla Reddy College of Engineering (MRCE), will be conducted entirely in **online mode**.

To ensure smooth communication and timely updates throughout the programme, a dedicated **WhatsApp group** has been created. Participants are encouraged to join the group using the link provided to stay connected, interact with fellow participants, and receive important announcements. Session links and related information will be shared with participants via **email** ahead of each session.

Important:

FDP Dates: **2nd January – 6th January 2023**

Mode: **Online**

Total No.of Participants:50

All sessions will be conducted via **Cisco Webex**.

Note: We kindly request you to download and install the Cisco Webex Meetings app in advance to avoid any last-minute issues.

Installation links:

- **For Desktop/Laptop:** <https://www.webex.com/downloads.html>
- **For Android:**
<https://play.google.com/store/apps/details?id=com.cisco.webex.meetings>
- **For iOS (iPhone/iPad):** <https://apps.apple.com/app/id298844386>
- **WhatsApp Group Link :** <https://chat.whatsapp.com/LB23xHpe8qy4MdT7KpA4ZS>
- **FDP Session Link :**
<https://netacad.webex.com/netacad/j.php?MTID=m8e24f6c91db35948e76a995e3e8d5a2a>



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Content and Session

The Faculty Development Program (FDP) commenced with a warm welcome and introductory speech by **Mr. R. Venkatesh**, Assistant Professor, who acknowledged the dignitaries and key figures behind the initiative. He first welcomed the visionary leader of MRCE, our respected Principal, **Dr. Maram Ashok**, who delivered the inaugural address,

Day 1



Title: Online Faculty Development Programme

Name of Guest Speaker: Mrs. P. Hemalatha

Topic: Foundations of Python Programming

Objectives: Understanding programming basics and Python fundamentals

Organization Name: Malla Reddy College of Engineering

Day and Date: January 02, 2023

Venue: Online Platform



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Session Link: <https://session.app/join/7F9KQ2M8>

Time: 6:00 p.m. to 7:30 p.m.

Total No. of Participants: 130

Feedback Link: [//feedback.app/form/9XQ2M7K8](https://feedback.app/form/9XQ2M7K8)

Mr. R. Venkatesh introduced the Chief Guest, Mrs. P. Hemalatha, Associate Professor, Malla Reddy College of Engineering.

In his session, **Mrs. P. Hemalatha**

provided valuable insights on the Foundations of Python Programming. He highlighted:

- Introduction to programming concepts and the evolution of Python
- Importance of Python in academia, industry, and research
- Python syntax, variables, data types, and basic input/output
- Overview of Python applications in automation, data analysis, and software development

The Day 1 session concluded with a heartfelt Vote of Thanks delivered by **Mr. R. Venkatesh**, Assistant Professor, expressing gratitude to the speaker and participants for their active involvement.

Day 2





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Title: Online Faculty Development Programme

Name of Guest Speaker: Mr. Srinivas

Topic: Core Python Programming Concepts

Objectives: Developing programming logic and problem-solving skills

Organization Name: Malla Reddy College of Engineering

Day and Date: January 03, 2023

Venue: Online Platform

Session Link: <https://session.app/join/7F9KQ2M8>

Time: 6:00 p.m. to 7:30 p.m.

Total No. of Participants: 150h

Feedback Link: <https://feedback.app/form/9XQ2M7K8>

In his session, Mr. Srinivas shared valuable insights on Core Python Programming Concepts, covering:

- Control structures: conditional statements and looping constructs
- Functions and modular programming
- Python data structures such as lists, tuples, sets, and dictionaries
- Real-world problem-solving using Python programs

Participants actively interacted and clarified doubts related to logic building and program execution.



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Day 3



Title: Online Faculty Development Programme

Name of Guest Speaker: Dr. Anantha Raman G. R.

Topic: File Handling, Exception Handling, and Modules

Objectives: Writing robust and error-free Python programs

Organization Name: Malla Reddy College of Engineering

Day and Date: January 04, 2023

Venue: Online Platform

Session Link: <https://session.app/join/7F9KQ2M8>

Time: 6:00 p.m. to 7:30 p.m.

Total No. of Participants: 148

Feedback Link: <https://feedback.app/form/9XQ2M7K8>

In his session, Dr. Anantha Raman G. R. delivered an insightful talk on advanced Python concepts, including:

- File handling operations for reading and writing data
- Exception handling techniques for managing runtime errors
- Use of modules and packages for code reusability
- Best practices for debugging and maintaining Python programs



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Day 4



Title: Online Faculty Development Programme

Name of Guest Speaker: Dr. M. Narender

Topic: Data Analysis and Visualization Using Python

Objectives: Applying Python for data analysis and visualization

Organization Name: Malla Reddy College of Engineering

Day and Date: January 05, 2023

Venue: Online Platform

Session Link: <https://session.app/join/7F9KQ2M8>

Time: 6:00 p.m. to 7:30 p.m.

Total No. of Participants: 145

Feedback Link: <https://feedback.app/form/9XQ2M7K8>

In her session, Dr. M. Narender highlighted the role of Python in data-driven applications and covered:

- Introduction to NumPy for numerical computations



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- Data manipulation using Pandas Data Frames
- Creating visualizations using Matplotlib
- Interpreting data insights for academic and research use

The session included practical demonstrations that enhanced participants' understanding.

Day 5

Title: Online Faculty Development Programme

Name of Guest Speaker: Dr. M. Narender

Topic: Python Applications in Teaching, Research, and Automation

Objectives: Applying Python in academic and research environments

Organization Name: Malla Reddy College of Engineering

Day and Date: January 06, 2023

Venue: Online Platform

Session Link: <https://session.app/join/7F9KQ2M8>

Time: 6:00 p.m. to 7:30 p.m.

Total No. of Participants: 140

Feedback Link: <https://feedback.app/form/9XQ2M7K8>

In her session, Dr. P. Srilatha provided valuable insights on:

- Automation and scripting using Python
- Python-based academic and research projects
- Using Python for data analysis, simulations, and reporting
- Future scope of Python in emerging technologies



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Open Discussion, Q&A, and Feedback

The FDP concluded with an interactive discussion where participants shared feedback, clarified doubts, and discussed future learning directions.



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PROGRAM OUTCOMES

Program Specific Outcomes (PSOs)

By the end of the Faculty Development Program, the participants will be able to:

PSO 1 – Pedagogical Excellence

Adopt modern teaching-learning methodologies, tools, and practices to enhance classroom engagement and knowledge delivery.

PSO 2 – Research & Innovation Competence

Apply advanced concepts, methodologies, and tools in their domain to initiate quality research, publications, and industry-oriented projects.

PSO 3 – Industry-Academia Collaboration

Integrate insights from industry experts and current technological trends into curriculum design, student mentoring, and project guidance.

PSO 4 – Professional and Ethical Development

Incorporate ethical practices, inclusivity, and lifelong learning habits in academic and research activities to serve as role models for students.



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Program Educational Objectives (PEOs)

The FDP aims to enable participants to:

PEO 1 – Continuous Upgradation of Knowledge

Strengthen their subject expertise and stay updated with emerging technologies and industry practices.

PEO 2 – Enhanced Teaching Competence

Develop innovative pedagogy and assessment strategies to improve student learning outcomes and employability.

PEO 3 – Research & Development Orientation

Encourage faculty to pursue research, secure funded projects, publish in reputed journals, and contribute to academic excellence.

PEO 4 – Holistic Faculty Growth

Foster a spirit of collaboration, adaptability, and professional responsibility, ensuring that faculty contribute effectively to the institution's mission and vision.

PEO 5 – Building Student-Centric Ecosystems

Equip faculty to mentor students effectively by guiding them through internships, projects, industry certifications, and career development activities.



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CONCLUSION

The Five Day Faculty Development Programme (FDP) on “**Python Programming and Its Applications**” concluded successfully with a rich blend of conceptual learning, hands-on practice, and collaborative engagement. Over the course of five days, the programme provided participants with a comprehensive understanding of Python programming fundamentals, advanced concepts, and real-world applications relevant to teaching, research, and academic problem-solving.

Eminent resource persons from academia delivered insightful sessions highlighting Python’s versatility and growing importance across domains such as data analysis, automation, software development, scientific computing, and research. Participants gained practical exposure to Python libraries, programming techniques, debugging strategies, data handling, and visualization tools. The hands-on demonstrations and interactive discussions enabled faculty members to effectively relate Python concepts to real-world scenarios, thereby enhancing their classroom delivery, research activities, and project mentoring capabilities.

Through interactive Q&A sessions, open discussions, and peer learning, faculty members exchanged ideas, clarified technical doubts, and explored innovative approaches for integrating Python programming into curriculum design and teaching methodologies.

Overall, the FDP successfully achieved its objective of equipping faculty members with essential Python programming skills and practical tools required to meet contemporary academic and industry demands. The successful completion of this FDP marks an important step toward building a community of educators who are technologically adept, research-driven, and well-equipped to guide students in a programming-centric and data-driven world.



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SAMPLE CERTIFICATE





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“A National level FDP on “Python Programming” Successfully organized and completed with support of convenor, co-convenor, Organizers.

Signature

Convenor

:

Co-convenors

:

Organizers

:

1. 72
2. RM

THANK YOU!!