

**A Report on Five Days Short Term Training Program on
“Competitive Coding using Python”
Organized by Department of Computer Science & Engineering-Cyber Security
from 04.11.2024 to 08.11.2024**



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS INSTITUTION)
Madanapalle - 517325, Annamayya Dist., Andhra Pradesh, India

Five Day Short Term Training Program
on
“Competitive Coding using Python”
Organized by
Department of Computer Science & Engineering (Cyber Security)
Registration link : <https://forms.gle/qPZScPX2exqG9ELb8>
Highlights: Real-time training to excel in competitive coding for MNCs.
(Registration Fee : Rs 100/-)

Date : 04.11.2024 to 08.11.2024 Time : 10:00 AM - 4:00 PM Venue : Seminar Hall A

Resource Person
Mrs. Komala Anamalamudi
Assistant Professor, C.S.E (Cyber Security)
MITS, Madanapalle.

Chief Patron: Dr. N. Vijaya Bhaskar Choudhary
Patron: Mrs. Keerthi Nadella
Program Chair: Dr. C. Viswanath
Convener: Dr. S.V.S. Ganga Devi
Coordinators: Mrs. M. Srilakshmi Preethi & Ms. G. Kanishka

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Event Organized by: Mrs. M. Srilakshmi Preethi & Ms. G. Kanishka, Assistant Professor, CSE -Cyber Security.
Resource Person Details: Mrs. A. Komala, Assistant Professor, CSE-Cyber Security.
Participants: 100 students
Venue: Seminar Hall - A
Mode of Conduct: Offline
Report Received on 13.11.2024

The Department of C.S.E (CYBER SECURITY) has organized the Five Day Short Term Training Program on “Competitive Coding using Python” from 4-11-2024 to 8-11-2024. This program was designed to enhance the coding and problem-solving skills of participants, particularly in the context of competitive programming. It catered to students who sought to improve their proficiency in Python for coding competitions and technical interviews.

The STTP was inaugurated at 10:00 AM in Seminar Hall-A by the Vice Principal Dr. P. Ramanathan, HoD of Cyber Security Dr. S.V.S. Ganga Devi, Resource Person Mrs A Komala and Coordinators Mrs. M. Srilakshmi Preethi, Ms. G. Kanishka.



Objectives:

The main objectives of the program were:

- To familiarize participants with the essentials of competitive programming.
- To improve logical reasoning and problem-solving skills using Python.
- To cover advanced data structures and algorithms.
- To provide hands-on experience through coding challenges and real-time problem solving.
- To prepare participants for coding competitions and technical assessments.

Program Highlights:

The program spanned five days, with each day dedicated to a specific theme in competitive coding:

- **Day 1:** Introduction to Competitive Programming and Python Basics (Data types, Operators, Input and Output, Control Statements with examples).
- **Day 2:** Data Structures in Python , Functions and Recursion with examples..
- **Day 3:** Lists, Operations on lists, built-in functions, list comprehension, Company specific problems based on arrays/lists.
- **Day 4:** Strings, Operations on strings, built-in functions, Company-specific problems based on strings.
- **Day 5:** Dictionaries, Operations on dictionaries, built-in functions, Company-specific problems based on dictionaries.
- The training sessions were delivered by experienced instructors with a strong background in Python programming and competitive coding.

Valedictory Ceremony and Prize Distribution:

- The program concluded with a valedictory ceremony on the final day at 12:00 Pm , marking the successful completion of the five-day training. The ceremony included a reflection on the week's achievements, along with acknowledgments to the trainers, organizers, and participants. The session highlighted the dedication and efforts of all involved in making the event a success.

Prize Distribution:

- To recognize outstanding performance and encourage participants, prizes were awarded to top performers based on their scores in coding challenges after completion of the program. The following prizes were distributed:

S.No	Roll Number	Name of the Student	Year and department	Cash Prize
1	23691A0487	Mahammad Kaif C	II Year,Electronics & Communication Engineering	Rs. 1000
2	22691A31G7	Molaka Subhash	III Year,C.S.E (Artificial Intelligence)	Rs. 800
3	23691A3785	Mn Nawaz Ali Khan	II Year, C.S.E (Cyber Security)	Rs. 500

Each winner received a certificate of achievement and a cash prize to commemorate their accomplishment. These awards aimed to motivate participants to continue honing their coding skills. Participants expressed positive feedback, noting that the program improved their coding abilities and prepared them for competitive programming.



The event concluded with a vote of thanks, extending gratitude to the organizing team, trainers, and all participants for their enthusiasm and commitment.

Program Outcomes:

Upon completing the training, participants gained:

- **Basics of Python Coding:** Beginners learned how to write and understand Python code more easily.
- **Introduction to Problem Solving:** They practiced breaking down problems into smaller steps, making coding challenges easier to approach.
- **Confidence in Coding Platforms:** Beginners got familiar with using coding platforms, helping them feel more comfortable with online coding environments.
- **Experience with Coding Challenges:** They practiced simple coding challenges, helping build confidence in solving problems.
- **Preparation for Future Learning:** This program gave beginners a strong foundation in coding, preparing them to continue learning and improving their skills.