A.V.C. COLLEGE OF ENGINEERING

|Approved by AICTE, New Delhi | |Affiliated to Anna University, Chennai|
|Accredited by NBA (CSE, EEE, ECE & Mech) & NAAC with 'A' Grade (3rd Cycle) |
|An ISO 9001:2015 Certified Institution|
Mannampandal, Mayiladuthurai District, Tamil Nadu –609 305

ICT Academy and Infosys Foundation CSR IT training Program

Python Web Development Training Report

Inauguration

The Inaugural Ceremony was held on 19.08.2024 by our Director Dr.M.Senthil Murugan, Principal Dr.C.Sundar Raj, Vice Principal Dr.S.Selvamuthukumaran/SPOC, Department Heads and Mentors of this training programme Dr.V.Padmavathi & Dr.S.K.Rajalakshmi.

The main Objective of the program is to prepare the student for placement with market ready skill, technical proficiency, soft skill and career planning. The training program, which commenced on 19th August 2024 and concluded on 14th September 2024. The goal of this training was designed to provide in-depth knowledge and hands-on experience in Python web development frameworks.

Pre-Assessment

The training begins with Pre-Assessment that consisted of five modules with questions meant to gauge basic proficiency with Python. Students successfully complete their pre assessment and enter into second level training named as technical session.
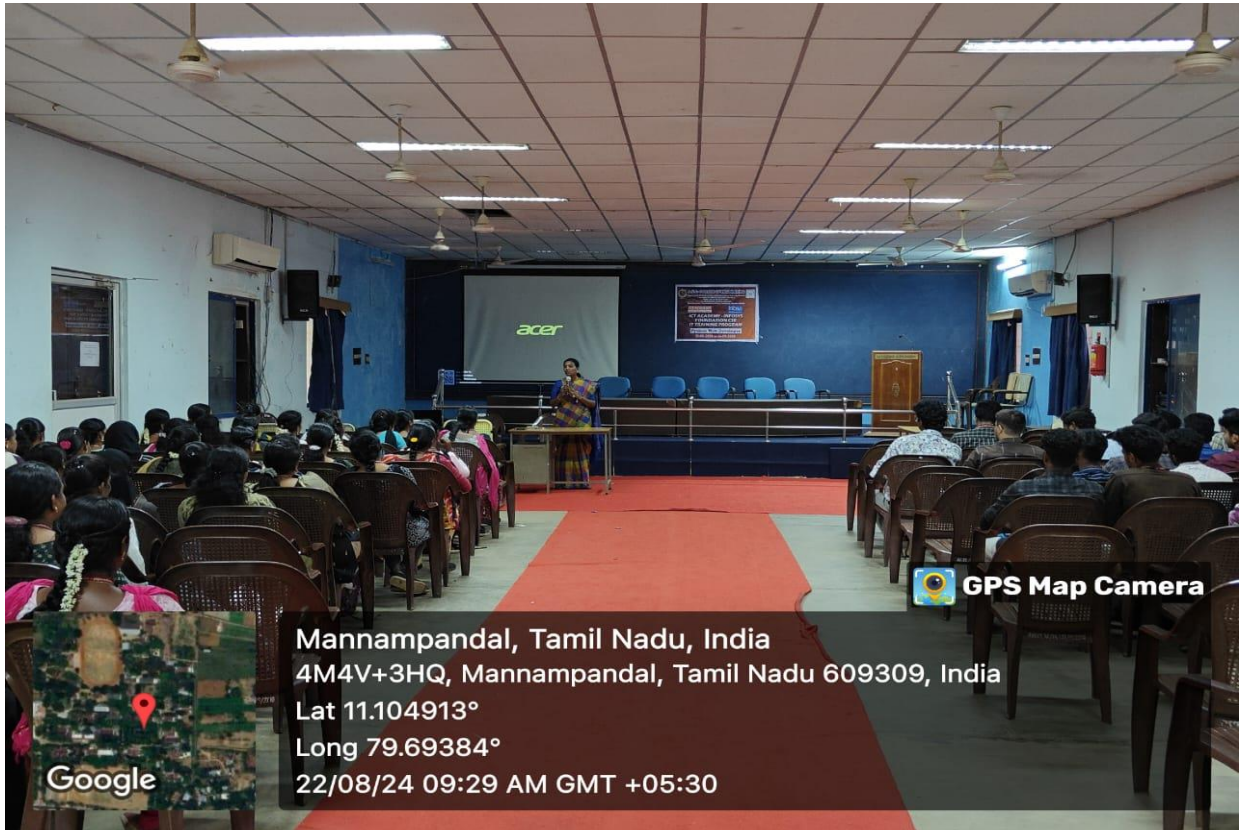
Soft Skills Training (21st August 2024 - 23rd August 2024)

First session is Soft skill training we started on Soft Skills Training instructed by Mrs. M. Sujatha. This session primarily-focus on.

Soft Skill Training:

   In this training students learnt how to prepare and present a strong self-introduction, which is an essential component of any interview. **Teamwork & Collaboration:** students were taught how to operate well as a team, with a focus on coordination and collaboration, through entertaining group exercises and interactive games. **Time management** is an essential ability for both personal and professional life. Through a variety of hands-on activities, students were able to better comprehend its significance. **Grammar and Communication**: Two areas that are critical for success in the workplace are grammar and communication. This soft skills training concluded with an Assessment.

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Python Web Development (27th August 2024 - 14th September 2024)

The core part of the training began on 27th August 2024 with the Python Web Development course instructed by Ms. M. Surabhi. This part of the training was truly enriching, as it covered both fundamental and advanced topics.
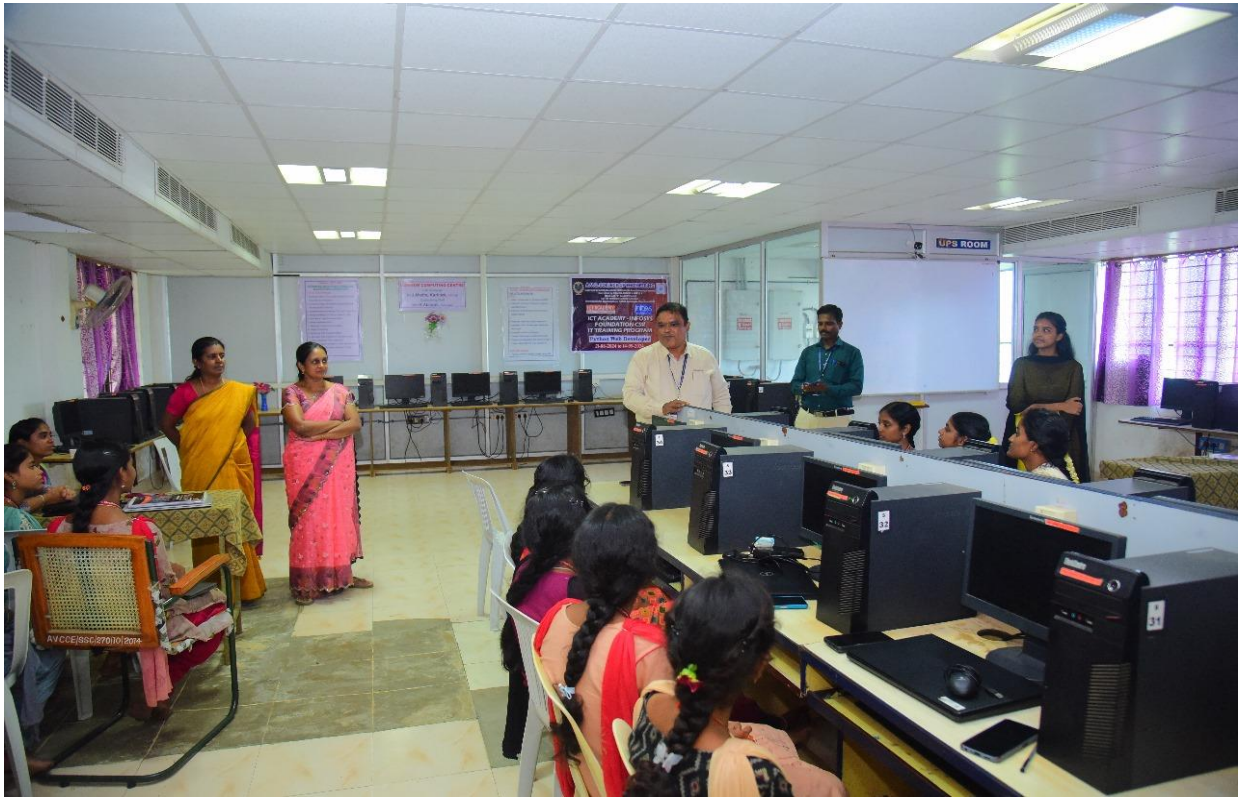
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Key Topics Covered:

Python Basics: The training started with Python fundamentals, including data types, control structures, and functions. **Object-Oriented Programming (OOP):** Students delved into OOP concepts, working with classes, objects, inheritance, encapsulation, and polymorphism. **Advanced Python:** The course introduced advanced Python topics, such as decorators, generators, and file handling. **Django Framework**: A major focus was on Django, where students learned to build web applications from scratch using this popular web framework. **Flask Framework**: Alongside Django, we were introduced toFlask, a micro-framework for web development. **MySQL**: Database management was also covered, where students learned how to integrate MySQL with Python and frameworkslike Django and Flask. **API Development**: The final part of the technical training involved learning how to build and consume APIs using Python frameworks.

Hands-on Project - The training concluded with a capstone project, which was the highlight of the entire course.

In last day of training Mr.N.Bala Murali, Senior Manager- Academic Operations and Mr.B.Rajiv Gandhi, Relationship Manager from ICT academy participated the project presentation and gave valuable suggestion to the students.

The Python Web Development training was an incredibly rewarding experience for the students. It provided them with a solid foundation in Python programming, web frameworks, and softskills that are essential for a successful career in technology.