ADVANCED IT CERTIFICATION COURSE OUTLINE

Module 1: Introduction to Advanced IT

- First, understand modern IT systems and their role in organizations.
- Next, explore hardware, software, and network basics clearly.
- Then, observe how companies manage digital operations daily.
- Finally, plan learning goals for advanced IT skills.

Module 2: Computer Hardware Concepts

- First, identify key components like CPU, RAM, and storage.
- Next, learn how hardware supports software performance.
- Then, compare SSD and HDD for speed and reliability.
- Finally, practice assembling basic computer parts carefully.

Module 3: Operating Systems

- First, understand how operating systems manage resources.
- Next, explore systems like Windows, Linux, and macOS.
- Then, practice file management and system settings.
- Finally, maintain system updates for better security.

Module 4: Networking Fundamentals

- First, learn how devices connect in networks.
- Next, understand routers, switches, and IP addresses clearly.

- Then, observe how data travels across networks.
- Finally, practice basic network configuration steps.

Module 5: Cybersecurity Basics

- First, understand common cyber threats and risks.
- Next, create strong passwords and enable authentication.
- Then, recognize phishing emails and suspicious links quickly.
- Finally, apply basic security practices daily.

Module 6: Database Fundamentals

- First, understand how databases store information securely.
- Next, explore tables, records, and relationships clearly.
- Then, practice simple queries using SQL commands.
- Finally, maintain organized and accurate data.

Module 7: Cloud Computing

- First, learn how cloud services store data online.
- Next, explore platforms like AWS, Azure, and Google Cloud.
- Then, understand scalability and remote access benefits.
- Finally, practice basic cloud storage tasks.

Module 8: Programming Fundamentals

- First, understand logic behind programming languages.
- Next, explore languages like Python and Java basics.
- Then, write simple programs with clear structure.
- Finally, test and debug code carefully.

Module 9: Web Technologies

- First, understand how websites work on the internet.
- Next, learn basics of HTML, CSS, and JavaScript.
- Then, create simple web pages step by step.
- Finally, improve layout and user experience.

Module 10: IT Project Management

- First, plan IT projects with clear objectives.
- Next, organize tasks and assign responsibilities properly.
- Then, monitor progress and manage risks effectively.
- Finally, deliver projects within time limits.

Module 11: Emerging Technologies

- First, explore AI, IoT, and blockchain innovations.
- Next, understand their role in modern businesses.
- Then, analyze real-world technology applications.
- Finally, stay updated with technology trends.

Module 12: Certification and Course Completion

- First, review all modules and key concepts carefully.
- Next, complete final assessment and practical tasks.
- Then, submit projects for instructor evaluation.
- Finally, receive Advanced IT Course Certification successfully.