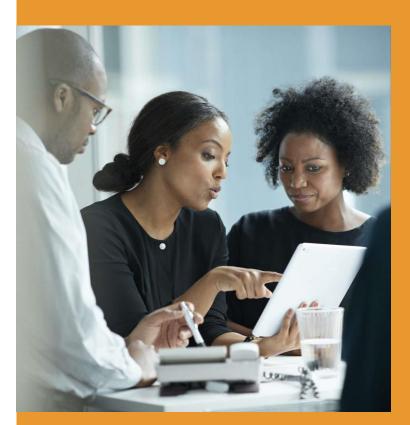
SMART PROFESSIONAL & SKILL BUILDER COURSES

APTECH NIGERIA







INTRODUCTION TO SMART PROFESSIONAL & SKILL BUILDER COURSES

- Today, Technology forms a big part of our lives. With the growing dependence of businesses on Information technology (I.T.), there is a large demand for skilled professionals who possess technical expertise in the I.T. sector.
- The gap in the demand and supply of these professionals is constantly increasing because of a sharp learning curve and a high skill set required in the field.
- Aptech has introduced Smart Professional & Skill Builder courses to kickstart,
 Upskill and learn technologies as per career interest.

SMART PROFESSIONAL COURSES



Smart Professional - Course Summary



S#	Course Family	Course Code	Course Name
1	OV-7105-SP-MISSK-2023	OV-7105	Smart Professional-MIS and Soft Skills
2	OV-7106-SP-NETWEB-2023	OV-7106	Smart ProfessionalNET Web Application Development
3	OV-7107-SP-JAVAWEB-2023	OV-7107	Smart Professional-Java Web Application Development
4	OV-7108-SP-PHPWEB-2023	OV-7108	Smart Professional-PHP Web Application Development
5	OV-7109-SP-PYTWEB-2023	OV-7109	Smart Professional-Python Web Application Development
6	OV-7110-FSTACK-2023	OV-7110	Full Stack MERN Development
7	0V-7111-SP-CROSSPF-2023	OV-7111	Smart Professional-Cross Platform App Development
8	OV-7112-SP-IOT-2023	OV-7112	Smart Professional-Internet of Things (IoT)
9	0V-7113-SP-FDS-2023	OV-7113	Smart Professional-Foundation in Data Science
10	OV-7114-SP-HDNW-2023	OV-7114	Smart Professional-Hardware and Networking

Smart Professional- Course Summary



S#	Course Family	Course Code	Course Name
11	OV-7115-SP-NWA-2023	OV-7115	Smart Professional - Network Administration
12	OV-7116-SP-AZAD-2023	OV-7116	Smart Professional - Azure Administration
13	OV-7117-SP-AZINFR-2023	OV-7117	Smart Professional - Designing Azure Infrastructure Solutions
14	OV-7118-SP-NWAES-2023	OV-7118	Smart Professional - Network Administration for Enterprise Solutions
15	OV-7142-SP-AIML-2024	OV-7142	Smart Professional-Artificial Intelligence and Machine Learning
16	OV-7143-SP-DATVIS-2024	OV-7143	Smart Professional-Data Visualization
17	OV-7077-SP-UIUX-ACE	OV-7077	Smart Professional- User Interface and Experience Design

Smart Professional - MIS and Soft Skills (OV-7105)



Module	Duration (Instruction al Hours)	Theory	Lab	Self-study Hours	Tool/Software
Office Automation	40	20	20	12	Microsoft 365
Data Analysis with MS Excel	24	12	12	10	MICTOSOTI 305
Advanced Presentation Techniques	24	12	12	8	MS PowerPoint 2013
Web Productivity Tools	16	8	8	8	Google Tools
Soft Skills	16	16	0	0	NA
Total Hours	120	68	52	38	









- Gain skills to automate everyday tasks and leverage AI capabilities in Office products through Microsoft CoPilot and 365
- Work with spreadsheets and analyze data using MS Excel
- Create advanced attractive presentations using Microsoft PowerPoint
- Use various Web tools for efficient communication and task management over the Web
- Learn the significance of soft skills in professional and inter-personal communications and facilitate an all-round development of personality







Module	Duration (Instructio nal Hours)	Theory	Lab	Self-study Hours	Tool/Software
Data Processing with XML and JSON	12	6	6	8	Apache NetBeans 16.x
Data Management with SQL Server	32	16	16	12	MS SQL Server 2022
Programming in C#	40	16	24	12	Microsoft Visual Studio
Developing ASP.NET CORE MVC Web Applications	40	20	20	12	2022 Professional
ProjectNET Web Application Development	2	2	0	0	
Total Hours	126	60	66	44	





CERTIFICATE NAME Smart Professional-.NET Web **Application Development**





- Use XML and JSON to store and exchange data
- Normalize raw data into well organized database tables in SQL Server
- Develop basic and advanced object-oriented applications using C#
- Develop advanced ASP NET MVC applications using NET Framework tools and technologies
- Develop a real-world Web application using latest .NET technologies



Smart Professional-Java Web Application Development (OV-7107)



Module	Duration (Instructional Hours)	Theory	Lab	Self-study Hours	Tool/Software
Data Processing with XML and JSON	12	6	6	8	Apache NetBeans 16.x
Java Programming - I	36	18	18	10	Java SE 19.x or higher
Java Programming - II	40	20	20	10	Java SE 19.x or higher and JavaFX
Working with MySQL	32	16	16	10	MySQL 8.x
Web Component Development using Jakarta EE	32	14	18	12	Jakarta EE 9 or higher, Apache Tomcat 10.x, MySQL 8.x
Integrating Applications with Spring Framework	16	8	8	8	Spring Framework 5.0 libraries
Project-Java Web Application Development	2	2	0	0	Jakarta EE 9 or higher
Total Hours	170	84	86	58	



Java Web Application Developer



CERTIFICATE NAME
Smart Professional-Java Web
Application Development





- Use XML and JSON to store and exchange data
- Design and develop desktop applications using Java
- Use the core language features and Application Programming Interfaces of Java to design object-oriented applications
- Use MySQL, the world's most popular open-source database
- Develop Web applications suited to any Jakarta EE application server using JSP and Servlet APIs
- Understand and work with the Spring Framework and Spring Boot
- Develop a real-world Web application using latest Java technologies







Module	Duration (Instructio nal Hours)	Theory	Lab	Self-study Hours	Tool/Software
Building Modern Websites	40	20	20	12	CoffeeCup Free HTML5 Editor
UI and UX for Responsive Web Design	16	8	8	6	Figma UI Toolkit
Frontend Web Development with React	24	12	12	8	React 18.x or higher
Working with MySQL	32	16	16	10	MySQL 8.x
PHP Development with Laravel Framework	48	24	24	12	PHP 8.0 & Laravel FW
Project-PHP Web Application Development	2	2	0	0	PHP 8.0 & Laravel FW
Total Hours	162	82	80	48	









- Use HTML 5 /CSS3 /JavaScript to develop interactive Websites and apps
- Learn the basic principles of effective and responsive Web UI/UX design
- Learn front end Web development with React
- Use MySQL, the world's most popular open-source database
- Create dynamic Web applications using PHP and Laravel Framework
- Develop a real-world Web application using PHP and Laravel Framework





Smart Professional-Python Web Application Development (OV-7109)

Module	Duration (Instructional Hours)	Theory	Lab	Self- study Hours	Tool/Software
Building Modern Websites	40	20	20	12	CoffeeCup Free HTML5 Editor
UI and UX for Responsive Web Design	16	8	8	6	Figma UI Toolkit
Frontend Web Development with React	24	12	12	8	React 18.x or higher
Working with MySQL	32	16	16	10	MySQL 8.x
Developing Applications with Python	40	20	20	12	Python 3.6.x
Web Application Development using Python	40	20	20	12	Python 3.6.x
Web Framework for Python (Django)	24	12	12	8	Django 3.x
Project-Python Web Application Development	2	2	0	0	Python 3.6.x & Django 3.x
Total Hours	218	110	108	68	



EXIT PROFILEPython Web Application Developer



CERTIFICATE NAME Smart Professional-Python Web Application Development





- Use HTML 5 /CSS3 /JavaScript to develop interactive Websites and apps
- Learn the basic principles of effective and responsive Web UI/UX design
- Learn front end Web development with React
- Use MySQL, the world's most popular open-source database
- Build Web applications using Python
- Learn how to make and publish websites with Django and Python
- Design and develop a Web application using Python







Module	Duration (Instruction al Hours)	Theory	Lab	Self-study Hours	Tool/Software	
Building Modern Websites	40	20	20	12	CoffeeCup Free HTML5 Editor	
UI and UX for Responsive Web Design	16	8	8	6	Figma Toolkit	
Frontend Web Development with React	24	12	12	8	React 18.x or higher	
Material UI	6	6	0	0	NA	
Distributed Version Control	12	6	6	8	GitHub Desktop 3.x	
Managing Large DataSets with MongoDB	32	16	16	10	MongoDB 6.x	
Server-side Development	24	12	12	12	Node.js 19.x	
Building Full Stack Applications	40	20	20	8	Express.js 5.x or higher, Node.js 19.x	
Project Guide-Full Stack MERN Application	2	2	0	0	or higher, MongoDB 6.x	
Total Hours	196	102	94	64		





Smart Professional - Full Stack MERN Development (OV-7110)



- Use HTML 5 /CSS 3 /JavaScript to implement well structured Websites
- Learn the basic principles of effective Web UX/UI design
- Take your project to the next level with Material UI
- Become an expert front end developer using ReactJs
- Learn the basics of Git for tracking, branching, merging, and managing code revisions
- Write server-side applications using JavaScript framework Node. Js
- Start learning how to build real world full stack apps
- Develop a full stack Web application using MERN



























Module		Duration structional Hours)	Theory	Lab	Self- study Hours	Tool/Software
Java Programming -		36	18	18	12	Java SE 19 or higher NetBeans 12 or higher
UI/UX for Mobile Develop	nent	10	10	0	6	NA
Introduction to Dart Program	nming	16	8	8	6	
Application Development Usin and Dart	g Flutter	40	20	20	16	Flutter SDK 1.22 with Dart 2.10.x, Android Studio
Project-Cross Platform A Development	\pp	2	2	0	0	
Total Hours		104	58	46	40	



EXIT PROFILECross-Platform Mobile App

Developer



CERTIFICATE NAME
Smart Professional-Cross Platform
App Development





- Design and develop desktop applications using Java
- Learn the basic principles of effective web UX/UI design
- Develop web and mobile apps as well as server and desktop applications using Dart programming language
- Build cross platform apps using Flutter Framework and Dart language
- Develop a Cross Platform App using Dart and Flutter







Module	Duration (Instructional Hours)	Theory	Lab	Self-study Hours	Tool/Software
Working with MySQL	32	16	16	10	MySQL 8.x
Developing Applications with Python	40	20	20	12	Python 3.6.x
IoT Hardware [Focus on sensors]	40	30	10	0	
IoT Networking	16	8	8	4	IoT Tools &
Programming the IoT with Python	40	20	20	12	Devices
Project-loT	2	2	0	0	
Total Hours	170	96	74	38	





CERTIFICATE NAME
Smart Professional-Internet of
Things (IoT)





- Understand syntax and logic of Python programming and learn how Python is used for data analysis and other applications
- Work with IoT hardware, sensors, and systems
- Implement networking in IoT applications
- Build rich IoT applications using IoT technologies, systems, and Python programming language
- Develop a project to implement IoT technologies







Module	Duration (Instructional Hours)	Theory	Lab	Self-study Hours	Tool/Software
Data Analysis with MS Excel	16	8	8	6	Office 365
Data Handling using T-SQL	16	8	8	4	Microsoft SQL Server 2019
Managing Large DataSets with MongoDB	32	16	16	0	MongoDB 6.x
Inferential Statistical Analysis	16	16	0	4	NA
Data Science using R Programming	36	18	18	10	R Studio 2.x or higher
Application Based Programming in Python	36	18	18	10	Python 3.6.x
Data Mining with WEKA	24	12	12	8	WEKA (Open- source AI and data mining tool)
Capstone Project for Data Mining	24	2	22	0	WEKA
Total Hours	200	98	102	42	





CERTIFICATE NAME Smart Professional-Foundation in Data Science

Smart Professional - Foundation in Data Science (OV-7113)



- Work with spreadsheets and analyze data using MS Excel
- Learn fundamental concepts of Transact SQL(TSQL) commands
- Understand MongoDB concepts, features, architecture and data model, and learn to install, configure, and monitor open-source NoSQL databases
- Understand the basics of statistical analysis, descriptive statistics, predictive analytics,
 probability, and Bayes theorem
- Master data exploration, predictive & descriptive analytics techniques using R
- Develop applications using Python language
- Use WEKA to perform data mining tasks
- Develop a Capstone project using WEKA and implement data mining tasks



Smart Professional-Artificial Intelligence and Machine Learning (OV-7142)



Module	Duration (Instruction al Hours)	Theory	Lab	Self-study Hours	Tool/Software
Managing Large DataSets with MongoDB	32	16	16	12	MongoDB 6.x
Application Based Programming in Python	36	18	18	10	
Data Science using R Programming	36	18	18	8	
Al Primer	16	16	0		Python NLP Tools and
Al Applications of NLP	40	20	20	8	Libraries JupyterNotebook,
AI and ML with Python	40	20	20	12	Google Collab TensorFloW
Applied Machine Learning using Python	40	20	20	12	
Deep Learning using Neural Networks	60	30	30	12	
Capstone Project-Recommendation Engine and Customer Churn Prediction	40	2	38	0	
Total Hours	340	160	180	90	





CERTIFICATE NAME
Smart Professional-Artificial
Intelligence and Machine Learning

Smart Professional-Artificial Intelligence and Machine Learning (OV-7142)



- Understand the basics of statistical analysis, descriptive statistics, predictive analytics, probability, and Bayes theorem
- Gain an understanding of Al
- Gain knowledge in NLP and learn the use of AI in NLP
- Use important building blocks of AI ML with Python, make data modelling decisions, interpret output of the algorithms, and validate results
- Master ML concepts and techniques including supervised and unsupervised learning, mathematical and heuristic aspects, and hands on modeling to develop AI algorithms
- Master deep learning concepts and TensorFlow open source framework, implement deep learning algorithms, and build ANN
- Develop a real world Capstone project on recommendation engine and perform customer churn prediction

Smart Professional-Data Visualization (OV-7143)



Module	Duration (Instruction al Hours)	Theory	Lab	Self-study Hours	Tool/Software
Data Analysis with MS Excel	24	12	12	10	Microsoft 365
Working with MySQL	32	16	16	10	MySQL 8.x Tableau Desktop
Visual Analytics with Tableau	32	16	16	12	•
Total Hours	88	44	44	32	





- Use MySQL, the world's most popular open source database
- Build visualizations, organize data, and design dashboards to empower more meaningful business decisions using Tableau Desktop data visualization and reporting tool.

Smart Professional-User Interface and Experience Design (OV-7077)



Term 1

Module	Duration (Instructional Theory Hours)		Lab	Self-study Hours
UX Design Overview	10	10	0	3
Basics of Usability	8	8	0	2
UXD Process and Workflow	8	8	0	2
UX Research Phase	16	16	0	4
UX Design Phase	16	8	8	4
Validation and Implementation Phase	14	10	4	4
UX Design Portfolio-1	18	2	16	0
Total Hours	90	62	28	19



Smart Professional-User Interface and Experience Design (UI & UX) (OV-7077)



- Explore the World of User Experience (UX) Design & Understand the importance of research and visual design.
- Discuss bit-depth, pixel-density, and resolution issues, managing color palettes, Understanding Icon design and pixel level design, GUI screen layout and composition, page layout and composition, GUI development principles, tools, and technologies
- Describe function-level interaction principles, concepts and process
- Understand how the interface is laid out & Discuss content structure
- Discuss the need to make good wireframes, and prototypes
- Understand usability methodologies & Review your design by analysing the test results
- Create a Portfolio showcasing your user experience design

Smart Professional-User Interface and Experience Design (OV-7077)



Term 2

Module	Duration (Instructional Hours)	Theory	Lab	Self-study Hours
Elements of User Interface (UI) Design	16	16	0	2
Pillars of UI Design	6	6	0	2
Dashboards and Data Visualization	6	2	4	2
UI Design for Mobile Devices, Web and Software	6	2	4	2
Web Technology for UI Designers	18	10	8	2
Wireframing and Prototype for UI Design	14	14	0	0
Usability and Testing for UI Design	12	12	0	0
UI Design Portfolio	12	2	10	0
Total Hours	90	64	26	90





- Develop enhanced visual sense to make right design choices.
- Describe Navigation and patterns of moving around an interface / across pages
- Describe function-level interaction principles, concepts and process
- Learn how to present actions and commands. Discuss the cognitive aspects of data presentation and how to use them to communicate knowledge and meaning
- Develop digital visual user interface for applications on Mobile, Web and new PC platform
- Explore the Building blocks of Mobile UI Design such as Grids, Typography, Colour & Anatomy
- Describe usability methodologies, usability testing principles and methods, principles of cognitive psychology
- Learn the basics of responsive design and how to launch a website that naturally adapts to any device and any screen size

Smart Professional-User Interface and Experience Design (OV-7077)



Term 3

Module	Duration (Instructional Theory Hours)		Lab	Self-study Hours
Basics of Interaction Design	16	16	0	2
Interaction Design and Usability	8	4	4	2
Information Architecture	16	16	0	2
User Flow	4	4	0	2
Wireframes and Prototypes	16	8	8	2
Design Pattern and Data Driven Validation	12	6	6	2
UX Design Portfolio-2	18	2	16	2
Total Hours	90	56	34	14



EXIT PROFILE

- UI Developer
- UX Designer
- UI/UX Developer



- Total Duration (Term 1 + 2 + 3)
 - 270 Hours

Smart Professional-User Interface and Experience Design (UI & UX) (OV-7077)



- Lear component-level interaction principles and concepts.
- Understand how the user receives feedback or confirmation.
- Learn presentation principles
- Demonstrate how to make good wireframes, mockups and prototypes
- Build case studies to discuss design process and showcase your work
- Review your design by analysing the test results and user feedback you've gathered
- Understand usability testing principles and methods, principles of cognitive psychology
- Create a unique Portfolio site that showcases your personality, projects, and writing





Module	Duration (Instructional Hours)	Theory	Lab	Self-study Hours	Tool/Software
Hardware, Networking, & Troubleshooting	36	18	18	10	Windows 10 and
Installing and Configuring Operating Systems	36	18	18	10	higher
Technologies of Computer Networks	40	20	20	12	Network Tools
Total Hours	112	56	56	32	





CERTIFICATE NAME
Smart Professional-Hardware and
Networking





- Learn the fundamentals of mobile devices, networking technology, hardware, virtualization and cloud computing
- Install and Configure operating systems, security, software, and operational procedures
- Gain the technical skills needed to securely establish, maintain and troubleshoot the essential networks that businesses rely on







Module	Duration (Instructional Hours)	Theory	Lab	Self-study Hours	Tool/Software
Hardware, Networking, & Troubleshooting	36	18	18	10	
Installing and Configuring Operating Systems	36	18	18	10	Windows 10 and higher
Manage Modern Desktops with Windows	40	20	20	12	
Technologies of Computer Networks	40	20	20	12	Network Tools
Implementing and Administering Network Solutions	40	20	20	16	Graphical Network Simulator-3 (GNS3) or any other Router Simulation Software
Total Hours	192	96	96	60	









- Learn the fundamentals of mobile devices, networking technology, hardware, virtualization and cloud computing
- Install and Configure operating systems, security, software, and operational procedures
- Gain the technical skills needed to securely establish, maintain and troubleshoot the essential networks that businesses rely on
- Install and configure Windows; configure and manage connectivity and storage; maintain Windows; and protect devices and data
- Gain the skills related to Network fundamentals, Network access, IP connectivity, IP services, Security fundamentals, Automation and programmability



Smart Professional- Azure Administration (OV-7116)



Module	Duration (Instructional Hours)	Theory	Lab	Self-study Hours	Tool/Software
Manage Modern Desktops with Windows	40	20	20	12	Windows 10 and higher
Azure Fundamentals	36	18	18	10	Microsoft Azure
Implementing, Managing and Monitoring Azure Environment	40	20	20	16	wiicrosoft Azure
Total Hours	116	58	58	38	









Learning Outcomes:

- Install and configure Windows; configure and manage connectivity and storage; maintain Windows; and protect devices and data
- Learn foundational level knowledge of cloud services and how those services are provided with Microsoft Azure
- Implement, manage, and monitor identity, governance, storage, compute, and virtual networks in a cloud environment





Smart Professional-Designing Azure Infrastructure Solutions (OV-7117)

Module	Duration (Instructional Hours)	Theory	Lab	Self-study Hours	Tool/Software
Azure Architect Technologies	40	20	20	16	Microsoft Azure
Azure Solutions Architect Design	40	20	20	16	Microsoft Azure
Total Hours	80	40	40	32	

Pre-requisite Course: Azure Administration (OV-7116)







Smart Professional - Designing Azure Infrastructure Solutions (OV-7117)

Learning Outcomes:

- Implement and manage on-premises and hybrid solutions, such as identity, management, compute, networking, and storage
- Implement and manage on-premises and hybrid solutions, including performing tasks related to security, migration, monitoring, high availability, troubleshooting, and disaster recovery







Module	Duration (Instructional Hours)	Theory	Lab	Self-study Hours	Tool/Software
Implementing and Operating Enterprise Network Core Technologies (ENCOR)	40	20	20		Graphical Network Simulator-3 (GNS3)
Implementing Enterprise Advanced Routing and Services (ENARSI)	40	20	20		or any other Router Simulation Software
Total Hours	80	40	40	32	



EXIT PROFILENetwork Engineer



CERTIFICATE NAME
Smart Professional-Network
Professional for Enterprise
Solutions

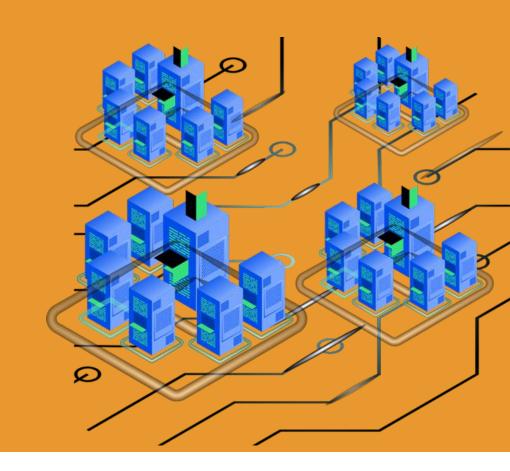
Pre-requisite Course: Smart Professional-Network Administration (OV-7115)



Smart Professional - Network Administration for Enterprise Solutions (OV-7118)

Learning Outcomes:

- Implement and Operate Cisco Enterprise Network Core Technologies including: Dual stack (IPv4 and IPv6) architecture, Virtualization. Infrastructure, Network assurance, Security, and Automation
- Implement Cisco Enterprise Advanced Routing and Services including: Layer 3, VPN services, Infrastructure security, Infrastructure services, and Infrastructure automation





SKILL BUILDER Courses



Skill Builders - Course Summary



S#	Course Family	Course Code	Course Name
1		OV-1500	Office Automation
2		OV-1501	Advanced Excel
3		OV-1502	Advanced Presentation Techniques
4		OV-1503	Programming in C
5	OV-ACE-Skill Builder OV-1504 Data Structures in		Data Structures in C
6	Courses-2023	OV-1505	Programming in C++
7		OV-1506	Responsive Web Development
8	OV-1507 Data Management with SQ		Data Management with SQL Server
9		OV-1508	Programming in C#
10		OV-1509	Developing ASP.NET MVC Web Applications

Skill Builders - Course Summary



S#	Course Family	Course Code	Course Name	
11		OV-1510	Enterprise Application Development in .NET	
12		OV-1511	Java Programming	
13		OV-1512	Web Application Development in Java	
14		OV-1513	Enterprise Application Development in Java	
15	OV-ACE-Skill Builder OV-1514 Cross Platform		Cross Platform Mobile App Development	
16	Courses-2023	Courses-2023	OV-1515	Embedded Programming
17		OV-1516	Software Testing using Selenium	
18		OV-1517	Web Development with PHP	
19		OV-1518	Programming with Python	
20		OV-1519	Web Development with Python	

Skill Builders - Course Summary



S#	Course Family	Course Code	Course Name
21		OV-1520	Software Project Management
22		OV-1521	R Programming
23		OV-1522	Large Data Management with MongoDB
24	OV-ACE-Skill Builder Courses-2023	OV-1523	Network Administration
25		OV-1524	Cybersecurity Operations Fundamentals
26		OV-1525	Ethical Hacking
27		OV-1527	UI and UX for Responsive Web Design

Skill Builder-Office Automation (OV-1500)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Office Automation	40	20	20	MS Office 365
Total Hours	40	20	20	



Exit Profile

MS Office Specialist



Certificate Name

Certificate of Participation in Office Automation



Examinable

No

 Gain skills to automate everyday tasks and leverage AI capabilities in Office products through Microsoft CoPilot and 365



Skill Builder-Advanced Excel (OV-1501)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Data Analysis with MS Excel	24	12	12	Microsoft 365
Total Hours	24	12	12	



Excel Specialist

Exit Profile



Certificate Name

Certificate of Participation in Advanced Excel



Examinable

No

• Work with spreadsheets and analyze data using MS Excel



Skill Builder-Advanced Presentation Techniques (OV-1502)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Advanced Presentation Techniques	24	12	12	MS Office 2013
Total Hours	24	12	12	



Exit Profile

PowerPoint Specialist



Certificate Name

Certificate of Participation in Advanced Presentation Techniques



Examinable

No

• Create advanced attractive presentations using Microsoft PowerPoint



Skill Builder-Programming in C (OV-1503)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Logic Building and Elementary Programming	32	16	16	NetBeans 8.0 or higher
Total Hours	32	16	16	



Exit Profile

C Programmer



Certificate Name

Certificate of Accomplishment in Programming in C



Examinable

Yes



• Use programming constructs to write programs in C

Skill Builder-Data Structures in C (OV-1504)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Data Structures in C	24	12	12	NetBeans 8.0 or higher
Total Hours	24	12	12	





Exit Profile

C Developer

Certificate Name

Certificate of Accomplishment in Data Structures in C

Examinable

Yes

• Learn arrays, algorithm analysis, strings, queues, trees and graphs



Skill Builder-Programming in C++ (Ov-1505)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Object Oriented Programming Concepts	16	16	0	NetBeans 8.0 or
Programming in C++	32	16	16	higher
Total Hours	48	32	16	





Exit Profile

C++ Programmer

Certificate Name

Certificate of Accomplishment in Programming in C++

Examinable

Yes

- Develop object-oriented programming skills using OOP principles and concepts
- Develop object-oriented applications using C++



Skill Builder-Responsive Web Development (OV-1506)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Building Modern Websites	40	20	20	CoffeeCup Free
UI and UX for Responsive Web Design	16	8	8	HTML5 Editor Figma UI Toolkit
Frontend Web Development with React	24	12	12	React 18.x or higher
Total Hours	80	40	40	





Responsive Web Developer



Certificate Name

Certificate of Accomplishment in Responsive Web Development

- Use HTML 5 /CSS3 /JavaScript to develop interactive Websites and apps
- Learn front end Web development with React
- Learn the basic principles of effective and responsive Web UI/UX design



Examinable

Yes



Skill Builder-Data Management with SQL Server (OV-1507)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Data Management with SQL Server	32	16	16	MS SQL Server 2022
Total Hours	32	16	16	





Exit Profile

SQL Developer

Certificate Name

Certificate of Accomplishment in Data Management with SQL Server

Examinable

No

Data...

Data...

Data...

DBMS

programming

programming

• Normalize raw data into well-organized database tables in SQL Server

Skill Builder-Programming in C# (OV-1508)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Programming in C#	40	16	24	Microsoft Visual Studio 2022 Professional
Total Hours	40	16	24	



Exit Profile

C# Programmer



Certificate Name

Certificate of Accomplishment in C# Programming



Examinable

Yes



Develop basic and advanced object-oriented applications using C#

Skill Builder-Developing ASP.NET MVC Web Applications (OV-1509)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Developing ASP.NET CORE MVC Web Applications	40	20	20	Microsoft Visual Studio 2022 Professional
Total Hours	40	20	20	





Exit Profile

.NET Web Application Developer

Certificate Name

Certificate of Accomplishment in Developing ASP.NET Core MVC Web Applications

Examinable

Yes

 Develop advanced ASP NET MVC applications using NET Framework tools and technologies



Skill Builder-Enterprise Application Development in .NET (OV-1510)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Developing Microsoft Azure and Web Services	40	20	20	Microsoft Visual Studio 2022 Professional
Total Hours	40	20	20	





Exit Profile

.NET Enterprise Application Developer

Certificate Name

Certificate of Accomplishment in Enterprise Application Development in .NET

Examinable

Yes



• Develop enterprise applications and Web services using the Microsoft Azure cloud platform

Skill Builder-Java Programming (OV-1511)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software	
Java Programming - I	36	18	18	Java SE 19.x or	
Java Programming - II	40	20	20	higher and JavaFX	
Total Hours	76	38	38		





Exit Profile

Java Programmer

Certificate Name

Certificate of Accomplishment in Java Programming

Examinable

Yes

- Design and develop desktop applications using Java
- Use the core language features and Application Programming Interfaces (of Java to design object-oriented applications



Skill Builder-Web Application Development in Java (OV-1512)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Web Component Development using Jakarta EE	32	14	18	Jakarta EE 9 or higher, Apache Tomcat 10.x, MySQL 8.x
Integrating Applications with Spring Framework	16	8	8	Spring Framework 5.0 libraries
Total Hours	48	22	26	







Exit Profile

Java Web Application Developer **Certificate Name**

Certificate of Accomplishment in Web Application Development in Java

Examinable

Yes

- Develop Web applications suited to any Jakarta EE application server using JSP and Servlet APIs
- Understand and work with the Spring Framework and Spring Boot



Skill Builder-Enterprise Application Development in Java (OV-1513)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Enterprise Application Development using EJB	36	18	18	Jakarta EE 9 or higher
Creating Services for the Web	12	6	6	Jakarta Enterprise Beans 4.0 or higher
Total Hours	48	24	24	



Exit Profile

Java Enterprise Application Developer



Certificate Name

Certificate of Accomplishment in Enterprise Application Development in Java





- Develop enterprise applications using Jakarta Enterprise Beans
- Design and develop enterprise applications using Jakarta Web Services APIs

Skill Builder-Cross Platform Mobile App Development (OV-1514)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software	
Introduction to Dart Programming	16	8	8	Flutter SDK 1.22 with Dart	
Application Development Using Flutter and Dart	40	20	20	2.10.x, Android Studio	
Total Hours	56	28	28		





Exit Profile

Mobile App Developer

Certificate Name

Certificate of Accomplishment in Cross Platform Mobile App Development

Examinable

Yes

- Develop web and mobile apps as well as server and desktop applications using Dart programming language
- Build cross platform apps using Flutter Framework and Dart language



Skill Builder-Embedded Programming (OV-1515)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Introduction to Embedded Systems	40	20	20	Proview32 Simulator
Programming Embedded Systems	40	20	20	μVision Simulator
Total Hours	80	40	40	



Exit Profile

Embedded Systems Programmer



Certificate Name

Certificate of Accomplishment in Embedded Programming



Examinable

Yes

Build solutions to real world problems using embedded systems



Skill Builder-Software Testing using Selenium (OV-1516)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Software Testing Using Selenium	16	8	8	Selenium 2.9.1.1
Total Hours	16	8	8	





Exit Profile

Software Tester

Certificate Name

Certificate of Accomplishment in Software Testing using Selenium

Examinable

Yes

Automate web app testing using test automation framework Selenium



Skill Builder-Web Development with PHP (OV-1517)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Working with MySQL	24	12	12	MySQL 8.x
PHP Development with Laravel Framework	48	24	24	PHP 8.0 & Laravel FW
Total Hours	72	12	12	





Exit Profile

PHP Developer

Certificate Name

Certificate of Accomplishment in Web Development with PHP

Examinable

Yes



- Use MySQL, the world's most popular open-source database
- Create dynamic Web applications using PHP and Laravel Framework

Skill Builder-Programming with Python (OV-1518)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Working with MySQL	24	12	12	MySQL 8.x
Developing Applications with Python	40	20	20	Python 3.6.x
Total Hours	64	12	12	





Exit Profile

Python Application Programmer

Certificate Name

Certificate of Accomplishment in Programming with Python

Examinable

Yes

Use MySQL, the world's most popular open-source database

Develop applications using Python language



Skill Builder-Web Development with Python (OV-1519)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Web Application Development using Python	40	20	20	MySQL 8.x
Web Framework for Python (Django)	24	12	12	Django 3.x
Total Hours	64	20	20	



Exit Profile

Python Web Application Developer



Certificate Name

Certificate of Accomplishment in Web Development using Python



Examinable

Yes

e Company of the comp

- Design and develop Web applications using Python
- Learn how to make and publish websites with Django and Python

Skill Builder-Software Project Management (OV-1520)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Software Project Management (MS Project 2021)	40	20	20	MS Project 2021
Total Hours	40	20	20	







Exit Profile

MS Project Specialist

Certificate Name

Certificate of Participation in Software Project Management

Examinable

Yes



Manage software projects efficiently using Microsoft Project

Skill Builder-R Programming (OV-1521)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Programming in R	40	20	20	R Studio latest version
Total Hours	40	20	20	





Exit Profile

R Programmer

Certificate Name

Certificate of Accomplishment in R Programming

Examinable

Yes

• Master data exploration, predictive & descriptive analytics techniques using R



Skill Builder-Large Data Management with MongoDB (OV-1522)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Managing Large DataSets with MongoDB	32	16	16	MongoDB 6.x
Total Hours	32	16	16	



\$



Exit Profile

MongoDB Developer

Certificate Name

Certificate of Accomplishment in Large
Data Management with MongoDB

Examinable

Yes

 Understand MongoDB concepts, features, architecture and data model, and learn to install, configure, and monitor open-source NoSQL databases



Skill Builder-Network Administration (OV-1523)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Implementing and Administering Network Solutions	40	20	20	Graphical Network Simulator-3 (GNS3) or any other Router Simulation
Total Hours	40	20	20	





Exit Profile

Network Administrator

Certificate Name

Certificate of Accomplishment in Network Administration

Examinable Yes

• Gain the skills related to Network fundamentals, Network access, IP connectivity, IP services, Security fundamentals, Automation and programmability

Skill Builder-Cybersecurity Operations Fundamentals (OV-1524)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Cybersecurity Operations Fundamentals	40	20	20	Graphical Network Simulator-3 (GNS3) or any other Router Simulation Software
Total Hours	40	20	20	







Exit Profile

Certificate Name

Examinable

Entry level cybersecurity analyst

Certificate of Accomplishment in Cybersecurity Operations Fundamentals

Yes

Gain knowledge in Security concepts, Security monitoring, Host-based analysis,
 Network intrusion analysis, Security policies and procedures

Skill Builder-Ethical Hacking (OV-1525)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
Ethical Hacking	40	20	20	Ethical Hacking Tools
Total Hours	40	20	20	





Exit Profile

Certificate Name

Examinable

Ethical Hacker (CEH v12)

Certificate of Accomplishment in Ethical Hacking

Yes

• Exploit weaknesses in the network system by using the best hacking tools and suggest solutions to protect the network



Skill Builder-UI and UX for Responsive Web Design (OV-1527)



Module	Duration (Instructional Hours)	Theory	Lab	Tool/Software
UI and UX for Responsive Web Design	16	8	8	Figma UI Toolkit
Total Hours	16	8	8	





Exit Profile

Certificate Name

Examinable

Figma UI Designer

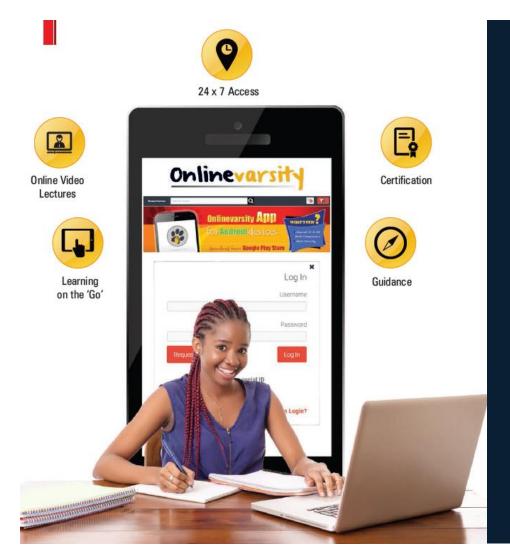
Certificate of Accomplishment in UI and UX for Responsive Web Design

Yes

Learn the basic principles of effective and responsive Web UI/UX design







ONLINEVARSITY

- Onlinevarsity is an interactive cloud-based learning platform and a one-stop resource center for our students worldwide.
- Students can get free access to assignments, programs, technologies, and research material for projects 24x7!
- Features:
- > e-Books, Glossary, FAQs & Additional reference material
- ➤ Simulations, Source Code downloads, Scenario-based assignments & Topic level assessments
- > Expert videos, Tutor chats, Blogs, Articles, Tips & Tricks
- ➤ Industry connect, Industry best practices & Groups





Thanks