## **COMPUTER APPLICATION AND PROGRAMMING**

## **01.Certificate in Basic Computer Application. (Duration 03 Months.)**

	Introduction to Computer Applications		
	Course Duration: 3 Months		
	Week 1-2:	Basic Computer Skills	
P	Mo	dule 1: Introduction to Computers	
	(1)	Understanding the history and evolution of computers	
	•	Identifying key components of a computer system	
	$\odot$	Familiarity with input, output, storage devices	
P	Mo	dule 2: Operating Systems	
	(P)	Introduction to popular operating systems (Windows, MacOS, Linux)	
	(P)	File management and organization	
	<b>(</b> )	Basic troubleshooting an <mark>d</mark> system maintenance	
	Week 3-4:	Microsoft Office Suite	
Œ	Mo	dule 3: Microsoft Word	
	(P)	Creating and formatting documents	
	<b>(</b>	Working with tables and images	
	(P)	Collaboration and sharing features	
(P)	Mo	dule 4: Microsoft Excel	
	(1)	Introduction to spreadsheets and cells	
	<b>(</b>	Basic formulas and functions	
	<b>O</b>	Data visualization using charts	
P	Mo	odule 5: Microsoft PowerPoint	
	(P)	Creating effective presentations	
	(P)	Slide design and layout	
	<b>(P)</b>	Incorporating multimedia elements	
	Week 5-6: 1	Internet and Web Basics	
P	Mo	dule 6: Internet Fundamentals	
	(P)	Navigating web browsers	
	(P)	Understanding URLs and web addresses	
	<b>O</b>	Using search engines effectively	
(1)	Mo	dule 7: Email and Online Communication	
	(1)	Setting up and managing email accounts	
	•	Writing professional emails	
	①	Understanding netiquette	
	Week 7-8:	Introduction to Programming Concepts	
Ð	Mo	dule 8: Basics of Programming	
	$^{\circ}$	Introduction to algorithms and pseudo code	

<sup>1 |</sup> WBJRS Computer Application & Programming.

	(P)	Understanding variables and data types	
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	В	asic concepts of control structures (if statements, loops)	
	Module 9	: Introduction to a Programming Language (e.g., Python)	
	<b>(P)</b>	Writing and executing simple programs	
	①	Debugging and troubleshooting	
	(P)	Basics of coding best practices	
	Week 9-1	0: Data Management and Security	
P	Module 10: Data Management		
	(1)	Introduction to databases	
	•	Basics of data organization and retrieval	
	①	Data security and privacy	
P	Module 11: Computer Security Basics		
	(P)	Understanding malware and antivirus software	
	(1)	Password management	
	(P)	Safe online practices	
	Week 11-12: Project and Practical Applications		
P	Module 12: Practical Applications		
	(P)	Applying learned skills to real-world scenarios	
	① a	Group project: Developing a simple application or solving a problem using computer pplications	
	(F)	Presentation of projects and feedback	

