Annexure - I

Certified PC Hardware and Networking Assistant

(Detailed Curriculum)

Section 1

Detailed Syllabus of Course

SL	Module Title	Topics	Duration (Hours)		Learning Outcome
			Theory	Lab	
1	Introduction to Computer and its peripheral	Mouse, Key Board, Printers, Display Devices & Data Storage Devices, Video Display, Hardware Organization of PCs, Power Supplies, System Diagnostic Tools	40	60	 After completing this unit, Learner will be able to Know the types of Peripheral Devices. Know the Working of Peripherals Devices and applications. Well versed in troubleshooting and identification of Components-Printers, Mouse, Keyboards. Learn Various Display types and its operation. Understand working of LED, LCD, TFT. Plasma, Quantum Dot Flexible and Rollable Display. Online Data Storage Offline Data Storage
2	PC Hardware	Power Supplies Motherboard Chipset Primary and Secondary Memories Buses & I/O Ports BIOS Booting and POST test	30	40	 Acquiring Knowledge on Active and passive device Digital Logic Circuits. Fuse, relays and panel components identification.

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3	Computer Networking	Types of Networks, Protocols in Networking, ISO-OSI Layer Protocol, Networking elements, TCP/IP, UTP cable crimping using RJ 45 connectors, Concepts of Switching and Routing, Service Provider network to connect Internet	50	80	
		Sub-total	120	180	
4	Employabilit y Skill	 Introduction to Employability Skills Career Development & Goal Setting Becoming a Professional in the 21st Century Basic English Skills Communication Skills Financial and Legal Literacy Entrepreneurship Diversity & Inclusion Constitutional values - Citizenship Essential Digital Skill 	30)	Learner will be able to know the various qualities required for employability
5	Project / OJT		60)	Learners will carry out a Project using the knowledge learned in this course. Or Learner will experience a working environment where Repair & Maintenance of Power Supply, Inverter & UPS are done

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Total Duration: 390 hours Theory: 120 Hours Practical: 180 Hours OJT: 60 Hours ES: 30 Hours

Section 2

LIST OF EQUIPMENT (For a batch of 30 students)

1	Classroom	1	30 Sq M
2	Student Chair	30	
3	Student Table	30	
5	LCD Projector	1	
6	Trainer Chair & Table	1	
7	Pin up Boards	1	
8	White Board	1	

Section 3

TRAINER PROFILE

Level: 3

Batch Size: 30 students

No of Trainers: 1

No of demonstrators: 1

	a. B.E./B. Tech in Electronics/Electronics &						
	Telecommunication/Electronics & Communication						
	with one year experience in the relevant field.						
	OR						
	b. Diploma in Electronics/Electronics &						
	telecommunication/Electronics &						
Education Qualification	Communication from recognized board of technical						
	education with two years' experience in the relevant						
	field						
	OR						
	National Appropriate Cortificate (NAC) / National Trade						
	Cortificate (NTC) in the trade with three years'						
	eventience respective in the relevant field						
	experience respective in the relevant field.						
Technical Skills	Hands on Knowledge on PC Hardware and Networking						
	 Good understanding of Electrical and Electronics 						
	Should be able to communicate well in English						
	 Good command on regional language 						
	Knowledge of working with Power Supply, Inverter &						
	UPS						
Othor Skills	Should be able to prepare lesson plan, deliver the						
	courses through the specified media as per schedule						
	 Should be able to aspire the trainees & evaluate and assess the trainees 						
	 Should be able to monitor progress and give feedback 						
	to trainees						
	 Should be able to maintain MIS related to training 						