

B.VOC

In

HARDWARE AND NETWORKING

(UGC)

Program Learning Outcomes:

- PLO1: Learn the proper techniques of maintenance of hardware and networking devices
- PLO2: Study the science of hardware and networking
- PLO3: Diagnose and repair all major problems regarding hardware, PC peripheral devices
- PLO4: Build your own book of business
- PLO5: Demonstrate a comprehensive understanding of computer hardware components, their functions, and troubleshooting techniques.
- PLO6: Acquire in-depth knowledge of networking principles, protocols, and architectures.
- PLO7: Develop the ability to design, implement, and manage network infrastructure, including cabling, routers, and switches.
- PLO8: Gain proficiency in installing, configuring, and troubleshooting various operating systems.
- PLO9: Acquire skills in server administration, including hardware and software management.

TOTAL DURATION OF COURSE: 3 Years

- ✓ After completion of Year-1 Diploma is awarded.
- ✓ After completion of Year-2 Advance Diploma is awarded.
- ✓ After completion of Year-3 B.VOC Degree is awarded.

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Year - 1 - Diploma (SEMESTER - I)
Corresponding NSQF Level 5

Course	Component	Theory / Practical / Sessional	Internal (Theory/Skill)	External (Theory/Skill)	Internal (Practical)	External (Practical / Sessional)	Credit		
							L	T	P
UGEN - 101 ENGLISH LANGUAGE AND COMMUNICATIVE SKILLS	Generic	Theory	30	70	-	-	3	1	-
UHWNV-101 BASIC ELECTRONICS	Skill	Theory	30	70	-	-	3	1	-
UHWNV-102 DIGITAL ELECTRONICS	Skill	Theory	30	70	-	-	3	1	-
UHWNV-191 BASIC ELECTRONICS LAB	Skill	Practical	-	-	40	60	-	-	3
UHWNV-192 DIGITAL ELECTRONICS LAB	Skill	Practical	-	-	40	60	-	-	3
UHWNV-193 PRACTICAL ON COMPUTER COMPONENTS IDENTIFICATION AND TESTING	Skill	Practical	-	-	40	60	-	-	4
UGEN – 181 ENGLISH LANGUAGE LAB	Generic	Sessional	-	-	-	100	-	-	2
UGEN - 182 COMPUTER FUNDAMENTALS & IT	Generic	Sessional	-	-	-	100	-	-	4

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Year - 1 - Diploma (SEMESTER - II)
Corresponding NSQF Level 5

Course	Component	Theory / Practical / Sessional	Internal (Theory/Skill)	External (Theory/Skill)	Internal (Practical)	External (Practical / Sessional)	Credit		
							L	T	P
UHWNV-201 PERSONAL COMPUTING SOFTWARE	Skill	Theory	30	70	-	-	3	1	-
UHWNV-202 COMPUTER HARDWARE, PC ASSEMBLING & TROUBLE SHOOTING	Skill	Theory	30	70	-	-	3	1	-
UHWNV-291 PERSONAL COMPUTING SOFTWARE LAB	Skill	Practical	-	-	40	60	-	-	3
UHWNV-292 COMPUTER HARDWARE, PC ASSEMBLING & TROUBLE SHOOTING LAB	Skill	Practical	-	-	40	60	-	-	3
UHWNV-293 PRACTICAL ON LAPTOP TROUBLE SHOOTING	Skill	Practical	-	-	40	60	-	-	4
UGEN - 281 SOFT SKILL & PERSONALITY DEVELOPMENT	Generic	Sessional	-	-	-	100	-	-	4
UGEN - 282 BUSINESS ANALYSIS: ENVIRONMENT, SALES & MARKETING	Generic	Sessional	-	-	-	100	-	-	4
UHWNV - 281 ON JOB TRAINING	Skill	Sessional	-	-	-	100	-	-	6

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Year - 2 - Advanced Diploma (SEMESTER - III)

Corresponding NSQF Level 6

Course	Component	Theory / Practical / Sessional	Internal (Theory/Skill)	External (Theory/Skill)	Internal (Practical)	External (Practical / Sessional)	Credit		
							L	T	P
UHWNV-301 COMPUTER PERIPHERAL AND DEVICES	Skill	Theory	30	70	-	-	3	1	-
UHWNV-302 NETWORK FUNDAMENTALS	Skill	Theory	30	70	-	-	3	1	-
UHWNV-391 COMPUTER PERIPHERAL AND DEVICES LAB	Skill	Practical	-	-	40	60	-	-	4
UHWNV-392 NETWORK FUNDAMENTALS LAB	Skill	Practical	-	-	40	60	-	-	4
UHWNV-393 PRACTICAL ON NETWORKING	Skill	Practical	-	-	40	60	-	-	4
UGEN - 381 VALUE EDUCATION & HUMAN RIGHTS	Generic	Sessional	-	-	-	100	-	-	4
UGEN - 382 BASIC ACCOUNTING	Generic	Sessional	-	-	-	100	-	-	4

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Year - 2 - Advanced Diploma (SEMESTER - IV)

Corresponding NSQF Level 6

Course	Component	Theory / Practical / Sessional	Internal (Theory/Skill)	External (Theory/Skill)	Internal (Practical)	External (Practical / Sessional)	Credit		
							L	T	P
UHWNV-401 WINDOWS SERVER ADMINISTRATION	Skill	Theory	30	70	-	-	3	1	-
UHWNV-402 SWITCHING AND ROUTING	Skill	Theory	30	70	-	-	3	1	-
UHWNV-491 WINDOWS SERVER ADMINISTRATION LAB	Skill	Practical	-	-	40	60	-	-	3
UHWNV-492 SWITCHING AND ROUTING LAB	Skill	Practical	-	-	40	60	-	-	3
UHWNV-493 PRACTICAL ON ROUTING CONFIGURATION & NETWORK CONNECTIVITY	Skill	Practical	-	-	40	60	-	-	4
UGEN - 481 ENVIRONMENTAL STUDIES	Generic	Sessional	-	-	-	100	-	-	4
UGEN - 482 QUALITY MANAGEMENT	Generic	Sessional	-	-	-	100	-	-	4
UHWNV – 481 ON JOB TRAINING	Skill	Sessional	-	-	-	100	-	-	6

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Year - 3 - Degree (SEMESTER - V)

Corresponding NSQF Level 7

Course	Component	Theory / Practical / Sessional	Internal (Theory/Skill)	External (Theory/Skill)	Internal (Practical)	External (Practical / Sessional)	Credit		
							L	T	P
UHWNV-501 LINUX OPERATING SYSTEM	Skill	Theory	30	70	-	-	3	1	-
UHWNV-502 NETWORK ADMINISTRATION & TROUBLE SHOOTING	Skill	Theory	30	70	-	-	3	1	-
UHWNV-591 LINUX OPERATING SYSTEM LAB	Skill	Practical	-	-	40	60	-	-	4
UHWNV-592 NETWORK ADMINISTRATION & TROUBLE SHOOTING LAB	Skill	Practical	-	-	40	60	-	-	4
UHWNV-593 PRACTICAL ON SWITCHING CONFIGURATION & NETWORK CONNECTIVITY	Skill	Practical	-	-	40	60	-	-	6
UGEN - 581 INDIAN ECONOMY & SOCIAL CHANGES	Generic	Sessional	-	-	-	100	-	-	4
UGEN - 582 RESEARCH METHODOLOGY	Generic	Sessional	-	-	-	100	-	-	4

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Year - 3 - Degree (SEMESTER - VI)

Corresponding NSQF Level 7

Course	Component	Theory / Practical / Sessional	Internal (Theory)	External (Theory)	Internal (Practical)	External (Practical / Sessional)	Credit		
							L	T	P
UGEN - 681 GENERAL HUMAN PSYCHOLOGY & HR MANAGEMENT	Generic	Sessional	-	-	-	100	-	-	4
UGEN - 682 ENTREPRENEURSHIP DEVELOPMENT PROGRAMME	Generic	Sessional	-	-	-	100	-	-	4
UHWNV - 681 INDUSTRIAL TRAINING	Skill	Sessional	-	-	-	100	-	-	14
UHWNV - 691 MAJOR PROJECT	Skill	Practical	-	-	40	60	-	-	8