(Formerly West Bengal University of Technology)

B.Voc. in Electronics Manufacturing Services (UGC)

(Effective for Academic Session 2024-2025)

B. VOC

In

ELECTRONICS MANUFACTURING SERVICES(UGC)

Program Learning Outcomes:

PLO1: Diagnose and repair all major electronics system

PLO2: Document repairs of electronic goods accurately and descriptive of concern cause and correction

PLO3: Effectively locate and utilize technical information required for the repair of electronic gadgets

PLO4: Work safely and responsibly within shop standards and environmental guidelines

PLO5: Demonstrate a comprehensive understanding of electronic components, their functions, and applications in various electronic products.

PLO6: Acquire the ability to design and analyze electronic circuits for different functionalities.

PLO7: Gain proficiency in electronic manufacturing processes, including PCB assembly, soldering, testing, and quality control.

PLO8: Develop skills in operating and maintaining electronic manufacturing equipment and machinery.

PLO9: Understand the principles of supply chain management in the electronics industry, including procurement, inventory control, and logistics

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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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B.Voc. in Electronics Manufacturing Services (UGC)

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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)		Cred	
UGEN - 101 ENGLISH LANGUAGE AND COMMUNICATIVE SKILLS	Generic	Theory	30	70	-	-	3	1	-
UEMSV - 101 FUNDAMENTAL OF ELECTRICAL	Skill	Theory	30	70	-	-	3	1	-
UEMSV – 102 PRINCIPLE OF ELECTRONICS	Skill	Theory	30	70	-	-	3	1	-
UEMSV - 191 FUNDAMENTAL OF ELECTRICAL LAB	Skill	Practical	-	-	40	60	-	-	3
UEMSV - 192 PRINCIPLE OF ELECTRONICS LAB	Skill	Practical	-	-	40	60	-	-	3
UEMSV - 193 IDENTIFICATION OF COMPONENTS, TOOLS, EUIPMENT, SOLDERING & DE - SOLDERING TECHNIQUES (PRACTICAL)	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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B.Voc. in Electronics Manufacturing Services (UGC)

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Year - 1 - Diploma (SEMESTER - II)

Corresponding NSQF Level 5											
Course		Theory / Practical / Sessional	Internal (Theory/Skill)	External (Theory/Skill)	Internal (Practical)	External (Practical / Sessional)	C	red	it		
		Component Theory / Practical / S		C Theory / F		Exte	Inter	External (F	L	ΤI	•
UEMSV - 201 ELCTRONICS DEVICES & CIRCUITS	Skill	Theory	30	70	-	-	3	1	-		
UEMSV - 202 DIGITAL ELCTRONICS	Skill	Theory	30	70	-	-	3	1	-		
UEMSV - 203 ELECTRONIC MEASUREMENT & INSTRUMENTATION	Skill	Theory	30	70	-	-	3	1	-		
UEMSV - 291 ELCTRONICS DEVICES & CIRCUITS LAB	Skill	Practical	-	-	40	60	-	-	2		
UEMSV - 292 DIGITAL ELCTRONICS LAB	Skill	Practical	-	-	40	60	-	-	2		
UEMSV - 293 ELECTRONIC MEASUREMENT & INSTRUMENTATION LAB	Skill	Practical	-	1	40	60	-	-	2		
UGEN - 281 SOFT SKILL & PERSONALITY DEVELOPMENT	Generic	Sessional	-	-	-	100	-	-	4		
UGEN - 282 BUSINESS ANALYSIS: ENVIRONMENT, SALES & MARKETING	Generic	Sessional	-	1	-	100	-	-	4		
UEMSV - 281 ON JOB TRAINING	Skill	Sessional	-	-	-	100	-	-	6		

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B.Voc. in Electronics Manufacturing Services (UGC)

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Year - 2 - Advanced Diploma (SEMESTER - III)

Corresponding 115Q1 Lever 0										
Course	Component	Theory / Practical / Sessional	Internal (Theory/Skill)	External (Theory/Skill)	Internal (Practical)	External (Practical / Sessional)	Cre		lit	
		Theory	ц	Ä	Jul Ind	Externa	L	Т	P	
UEMSV – 301 MICROPROCESSOR	Skill	Theory	30	70	-	-	3	1	-	
UEMSV - 302 AUDIO& VIDEO ENGINEERING	Skill	Theory	30	70	-	-	3	1	-	
UEMSV - 303 FUNDAMENTAL OF TROUBLESHOOTING ELECTRONIC EQUIPMENT	Skill	Theory	30	70	-	-	3	1	-	
UEMSV – 391 MICROPROCESSOR LAB	Skill	Practical	-	-	40	60	-	-	2	
UEMSV - 392 AUDIO& VIDEO ENGINEERING LAB	Skill	Practical	-	-	40	60	-	-	2	
UEMSV - 393 FUNDAMENTAL OF TROUBLESHOOTING ELECTRONIC EQUIPMENT LAB	Skill	Practical	-	-	40	60	-	-	4	
UGEN - 381 VALUE EDUCATION & HUMAN RIGHTS	Generic	Sessional	1	-	-	100	-	-	4	
UGEN – 382 BASIC ACCOUNTING	Generic	Sessional	-	-	-	100	-	-	4	

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B.Voc. in Electronics Manufacturing Services (UGC)

(Effective for Academic Session 2024-2025)

Year - 2 - Advanced Diploma (SEMESTER - IV)

Corresponding 14	7 2	7 7 61 0									
Course	Component	Theory / Practical / Sessional	Internal (Theory/Skill)	External (Theory/Skill)	Internal (Practical)	External (Practical / Sessional)	C	Cred	lit		
	C Theo		C Theo		Inte	Exte	Inter	Exter	L	T	P
UEMSV – 401 PC SOFTWARE	Skill	Theory	30	70	-	-	3	1	-		
UEMSV – 402 MOBILE & SMART PHONE	Skill	Theory	30	70	-	-	3	1	-		
UEMSV - 403 TROUBLESHOOTING & MAINTENANCE OF ELECTRONIC EQUIPMENT – I	Skill	Theory	30	70	-	-	3	1	-		
UEMSV - 491 PC SOFTWARE LAB	Skill	Practical	-	-	40	60	-	-	2		
UEMSV - 492 MOBILE & SMART PHONE LAB	Skill	Practical	-	-	40	60	-	-	2		
UEMSV - 493 TROUBLESHOOTING & MAINTENANCE OF ELECTRONIC EQUIPMENT LAB– I	Skill	Practical	-	-	40	60	-	-	2		
UGEN - 481 ENVIRONMENTAL STUDIES	Generic	Sessional	1	1	ı	100	-	-	4		
UGEN - 482 QUALITY MANAGEMENT	Generic	Sessional	-	-	-	100	-	-	4		
UEMSV – 481 ON JOB TRAINING	Skill	Sessional	-	-	-	100	_	_	6		

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B.Voc. in Electronics Manufacturing Services (UGC)

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Year - 3 - Degree (SEMESTER - V)

Correspond	8	<u> </u>				1								
Course	Component	Theory / Practical / Sessional	Internal (Theory/Skill)	External (Theory/Skill)	Internal (Practical)	External (Practical / Sessional)	L	Cred T	lit P					
UEMSV - 501 COMMUNICATION ENGINEERING	Skill	Theory	30	70	-	-	3	1	-					
UEMSV - 502 TROUBLESHOOTING & MAINTENANCE OF ELECTRONIC EQUIPMENT – II	Skill	Theory	30	70	-	-	3	1	-					
UEMSV – 591 COMMUNICATION ENGINEERING LAB	Skill	Practical	-	-	40	60	-	-	4					
UEMSV - 592 TROUBLESHOOTING & MAINTENANCE OF ELECTRONIC EQUIPMENT LAB – II	Skill	Practical	-	-	40	60	-	-	4					
UEMSV – 593 MINOR PROJECT	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/Skill)	Internal (Practical/Skill)	External (Practical / Sessional)		Cred	
		Ē	I I	<u> </u>	Ī	Ex	L	T	P
UGEN - 681 GENERAL HUMAN PSYCHOLOGY & HR MANAGEMENT	Generic	Sessional	-	-	-	100	-	-	4
UGEN - 682 ENTREPRENEURSHIP DEVELOPMENT PROGRAMME	Generic	Sessional	ı	-	ı	100	-	-	4
UEMSV - 681 INDUSTRIAL TRAINING	Skill	Sessional	-	-	-	100	-	-	14
UEMSV - 691 MAJOR PROJECT	Skill	Practical	-	-	40	60	-	-	8