

B. VOC

In

AUTOMOBILE SERVICING TECHNOLOGY

(UGC)

Program Learning Outcomes:

- PLO1: Diagnose and repair all major vehicle systems.
- PLO2: Document repairs of vehicles accurately and description of concern, cause, and correction.
- PLO3: Effectively locate and utilize technical information required for vehicle repairs.
- PLO4: Work safely and responsibly within all shop standards and environmental guidelines.
- PLO5: Demonstrate a comprehensive understanding of automotive systems, including engines, transmissions, brakes, steering, suspension, electrical, and electronic components.
- PLO6: Develop the ability to accurately diagnose vehicle problems using diagnostic tools and equipment.
- PLO7: Acquire the skills to perform a variety of automotive repairs and maintenance tasks efficiently and effectively.
- PLO8: Gain expertise in working with automotive electrical and electronic systems, including wiring, sensors, and computer modules.
- PLO9: Develop the ability to optimize engine performance through adjustments, modifications, and troubleshooting.

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.

Maulana Abul Kalam Azad University of Technology, West Bengal
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B.Voc. in Automobile Servicing Technology (UGC)
(Effective for Academic Session 2024-2025)
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	-
UAMV - 101 FUNDAMENTALS OF AUTOMOBILE ENGINEERING	Skill	Theory	30	70	-	-	3	1	-
UAMV - 102 WORKSHOP SCIENCE & TECHNOLOGY	Skill	Theory	30	70	-	-	3	1	-
UAMV - 191 FUNDAMENTALS OF AUTOMOBILE ENGINEERING LAB	Skill	Practical	-	-	40	60	-	-	3
UAMV - 192 WORKSHOP SCIENCE & TECHNOLOGY LAB	Skill	Practical	-	-	40	60	-	-	3
UAMV – 193 ENGINEERING DRAWING	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
UAMV - 201 URBAN TRANSPORTATION REQUIREMENT & PLANNING	Skill	Theory	30	70	-	-	3	1	-
UAMV - 202 BASIC ELECTRICAL & ELECTRONICS	Skill	Theory	30	70	-	-	3	1	-
UAMV - 203 PETROL ENGINE	Skill	Theory	30	70	-	-	3	1	-
UAMV - 291 BASIC ELECTRICAL & ELECTRONICS LAB	Skill	Practical	-	-	40	60	-	-	2
UAMV - 292 PETROL ENGINE LAB	Skill	Practical	-	-	40	60	-	-	2
UAMV - 281 PRACTICE SESSION ON URBAN TRANSPORTATION REQUIREMENT & PLANNING	Skill	Sessional	-	-	-	100	-	-	2
UGEN - 281 SOFT SKILL & PERSONALITY DEVELOPMENT	Generic	Sessional	-	-	-	100	-	-	4
UGEN - 282 BUSINESS ANALYSIS: ENVIRONMENT, SALES & MARKETING	Generic	Sessional	-	-	-	100	-	-	4
UAMV - 282 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
UAMV – 301 CAD	Skill	Theory	30	70	-	-	3	1	-
UAMV - 302 DIESEL ENGINE	Skill	Theory	30	70	-	-	3	1	-
UAMV - 303 AUTOMOBILE BODY & CHASSIS ENGINEERING	Skill	Theory	30	70	-	-	3	1	-
UAMV - 391 CAD LAB	Skill	Practical	-	-	40	60	-	-	2
UAMV – 392 DIESEL ENGINE LAB	Skill	Practical	-	-	40	60	-	-	3
UAMV - 393 AUTOMOBILE BODY & CHASSIS ENGINEERING LAB	Skill	Practical	-	-	40	60	-	-	3
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
UAMV - 401 VEHICLE PERFORMANCE AND TESTING	Skill	Theory	30	70	-	-	3	1	-
UAMV - 402 AUTOMOTIVE SAFETY	Skill	Theory	30	70	-	-	3	1	-
UAMV - 403 AUTO ELECTRICAL SYSTEMS & TRANSMISSION	Skill	Theory	30	70	-	-	3	1	-
UAMV - 491 VEHICLE PERFORMANCE AND TESTING LAB	Skill	Practical	-	-	40	60	-	-	2
UAMV - 492 AUTOMOTIVE SAFETY LAB	Skill	Practical	-	-	40	60	-	-	2
UAMV - 493 AUTO ELECTRICAL SYSTEMS & TRANSMISSION LAB	Skill	Practical	-	-	40	60	-	-	2
UGEN - 481 ENVIRONMENTAL STUDIES	Generic	Sessional	-	-	-	100	-	-	4
UGEN - 482 QUALITY MANAGEMENT	Generic	Sessional	-	-	-	100	-	-	4
UAMV – 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
UAMV - 501 TWO AND THREE WHEELERS	Skill	Theory	30	70	-	-	3	1	-
UAMV - 502 AUTOMOTIVE AIR CONDITIONING	Skill	Theory	30	70	-	-	3	1	-
UAMV - 503 MOTOR VEHICLE ACT & POLLUTION CONTROL	Skill	Theory	30	70	-	-	3	1	-
UAMV - 591 TWO AND THREE WHEELERS LAB	Skill	Practical	-	-	40	60	-	-	4
UAMV - 592 AUTOMOTIVE AIR CONDITIONING LAB	Skill	Practical	-	-	40	60	-	-	3
UAMV - 581 PRACTICE SESSION ON MOTOR VEHICLE ACT & POLLUTION CONTROL	Skill	Sessional	-	-	-	100	-	-	3
UGEN - 581 INDIAN ECONOMY & SOCIAL CHANGES	Generic	Sessional	-	-	-	100	-	-	4
UGEN - 582 RESEARCH METHODOLOGY	Generic	Sessional	-	-	-	100	-	-	4

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Corresponding NSQF Level 7

Course	Component	Theory / Practical / Sessional	Internal (Theory)	External (Theory/Skill)	Internal (Practical/Skill)	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
UAMV - 681 INDUSTRIAL TRAINING	Skill	Sessional	-	-	-	100	-	-	14
UAMV – 691 MAJOR PROJECT	Skill	Practical	-	-	40	60	-	-	8