



MCKV INSTITUTE OF ENGINEERING

NAAC Accredited "A" Grade Autonomous Institute under UGC Act 1956

Approved by AICTE & affiliated to Maulana Abul Kalam Azad University of Technology, WEST BENGAL

Curriculum for Undergraduate Degree (B.VOC) in Automobile Servicing (w.e.f. AY: 2021-22)

Part I: Course Structure & Semester wise Credit Distribution

1ST YEAR

Sl. No	Code	Paper	Contact Hours			Marks	Credits
SEMESTER I							
THEORY							
			L	T	P		
1	BAS101	Applied Mathematics	3	0	0	50	3
2	BAS102	Basic Electricity	3	0	0	50	3
3	BAS 103	English Language and Communicative Skills	3	0	0	50	3
4	BAS 104	Manufacturing Technology	3	0	0	50	3
5	BAS 105	Motor Vehicle Technology-I	3	0	0	50	3
PRACTICAL							
1	BAS 191	Engineering Graphics	0	0	3	50	1.5
2	BAS 192	English Language and Communicative Skills Lab	0	0	3	50	1.5
SESSIONAL							
1	BAS 181	Industrial/on job training(OJT)				150	12
TOTAL CREDITS							30



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1ST YEAR

Sl. No	Code	Paper	Contact Hours			Marks	Credits
SEMESTER II							
THEORY							
			L	T	P		
1	BAS201	BasicElectronics	3	0	0	50	3
2	BAS202	MaterialScience And Material	3	0	0	50	3
3	BAS 203	MotorVehicleTechnology- II	3	0	0	50	3
4	BAS 204	TwoandThreeWheeler	3	0	0	50	3
PRACTICAL							
1	BAS 291	MechanicalWorkshop Practice-I	0	0	3	50	1.5
2	BAS 292	Metrologyand MeasuringInstruments Lab	0	0	3	50	1.5
3	BAS283	Project	0	0	2	50	3
SESSIONAL							
1	BAS 281	Industrial/on job traning(OJT)				150	12
TOTAL CREDITS							30



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2ND YEAR

Sl. No	Code	Paper	Contact Hours			Marks	Credits
SEMESTER III							
THEORY							
			L	T	P		
1	BAS301	ITTools	3	0	0	50	3
2	BAS302	TotalQualityManagement	3	0	0	50	3
3	BAS 303	AutomobileEngines	3	0	0	50	3
4	BAS 304	AutomobileElectricalEquipments	3	0	0	50	3
5	BAS 305	AlternativeFuel&EmissionControl	3	0	0	50	3
PRACTICAL							
1	BAS 391	ITLab	0	0	3	50	1.5
2	BAS 392	AutomobileWorkshop Practice-I	0	0	3	50	1.5
SESSIONAL							
1	BAS 381	Industrial/on job training(OJT)				150	12
TOTAL CREDITS							30



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2ND YEAR

Sl. No	Code	Paper	Contact Hours			Marks	Credits
SEMESTER IV							
THEORY							
			L	T	P		
1	BAS401	IndustrialManagement	3	0	0	50	3
2	BAS402	AutomotiveRefrigerationandAirConditioning	3	0	0	50	3
3	BAS 403	HybridandElectricVehicles	3	0	0	50	3
4	BAS 404	AutomobileEngineSystems	3	0	0	50	3
5	BAS 405	VehiclePerformanceandTesting	3	0	0	50	3
PRACTICAL							
1	BAS 491	RefrigerationandAirConditioningLab	0	0	3	50	1.5
2	BAS 492	VehiclePerformanceandTestingLab	0	0	3	50	1.5
SESSIONAL							
1	BAS 481	Industrial/on job training(OJT)				150	12
TOTAL CREDITS							30



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3RD YEAR

Sl. No	Code	Paper	Contact Hours			Marks	Credits
SEMESTER V							
THEORY							
			L	T	P		
1	BAS501	Entrepreneurship	3	0	0	50	3
2	BAS502	AutomotiveSystemDesign	3	0	0	50	3
3	BAS 503	GarageOrganizati on& TransportMa nagement	3	0	0	50	3
4	BAS 504	AutomotiveElectrical And Electronics	3	0	0	50	3
5	BAS 505	AutoBodyRepair,Denting& Painting	3	0	0	50	3
PRACTICAL							
1	BAS 591	AutomobileWorkshop-II	0	0	3	50	1.5
2	BAS 592	Auto Body Repair,Denting & Painting Workshop	0	0	3	50	1.5
SESSIONAL							
1	BAS 581	Industrial/on job traning(OJT)				150	12
TOTAL CREDITS							30



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3RD YEAR

Sl. No	Code	Paper	Contact Hours			Marks	Credits
SEMESTER VI							
THEORY							
			L	T	P		
1	BAS601	Customer Relation Managment	3	0	0	50	3
2	BAS602	AutomobileMaintenanceService&Repairs	3	0	0	50	3
3	BAS 603	AutoNVH	3	0	0	50	3
4	BAS 604	OffRoadVehicles	3	0	0	50	3
PRACTICAL							
1	BAS 691	Project	0	0	3	50	1.5
SESSIONAL							
1	BAS 681	Industrial/on job traning(OJT)				150	12
TOTAL CREDITS							30

BAS: B.VOC in Automobile Servicing;