6.2.3	Usage of room	for counselling/	discussion	with students	Institute Marks: 5.00
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S. No.	Laboratories Description	Number of Rooms
1	For discussion/counselling	1
2	Automobile Practical's	15

(Instruction: Assessment based on the information provided in the preceding table and the inspection there of.)

Usage of room for discussion/counselling with students

S. no.	Room description	Classroom size(m <sup>2</sup> )	Shared/exclusive	Capacity	Others Facilities
1.	E103 –Room for discussion/counselling	69.28	Shared with tutorial room	66	Projector/Pc

The following table is required for the subsequent criteria.

Laboratory Description In The Curriculum	Exclusive Use/ Shared	Space (Sq m)	Number Of Experiments	Quality Of Instruments	Laboratory Manuals
Workshop Practice	Shared By All Departments	171	12	All good quality equipments in working condition	Available
Computer aided drafting and modelling lab.	Shared	120	10	All good quality equipments in working condition	Available
Manufacturing technology Laboratory	Shared	239.4	13	All good quality equipments in working condition	Available
Fluid mechanics and machinery	Shared	171	11	All good quality equipments in working condition	Printed lab manual are available for students
Automotive Components Laboratory	Exclusive	171	12	All good quality equipments in working condition	Available
Engine Performance and Emission Testing Laboratory	Shared	171	11	All good quality equipments in working condition	Printed lab manual are available for students
Computer Aided Machine Drawing Laboratory	Shared	69.38	10	All good quality equipments in working condition	Available

Laboratory Description In The Curriculum	Exclusive Use/ Shared	Space (Sq m)	Number Of Experiments	Quality Of Instruments	Laboratory Manuals
Strength of Materials Lab	Shared	69.38	10	All good quality equipments in working condition	Printed lab manual are available for students
Automotive Electrical and Electronics Laboratory	Exclusive	69.38	20	All good quality equipments in working condition	Available
Automotive Fuels and Lubricants Laboratory	Exclusive	69.38	15	All good quality equipments in working condition	Available
Computer Aided Engine Design Laboratory	Shared	69.38	10	All good quality equipments in working condition	Available
Computer Aided Chassis Design Laboratory	Shared	69.38	11	All good quality equipments in working condition	Available
Two and Three Wheelers Laboratory	Exclusive	239.4	12	All good quality equipments in working condition	Available
Vehicle Maintenance and Re-conditioning Laboratory	Exclusive	239.4	10	All good quality equipments in working condition	Available
CAD/ CAM Lab	Shared	69.38	11	All good quality equipments in working condition	Available

### 6.3 Laboratories in the Department to meet the Curriculum Requirements and the Pos Total Marks: 60.00

### 6.3.1 Adequate, well-equipped laboratories to meet the curriculum requirements and the Pos (20) Institute Marks: 20.00

(Instruction: Assessment based on the information provided in the preceding table.)

C No.	I aboratories description in the surriculum	Programme Outcomes											
5.140.	S.No. Laboratories description in the curriculum		PO2	PO3	PO4	PO5	PO6	<b>PO</b> 7	PO8	PO9	PO10	P011	PO12
1	Workshop Practice												
2	Computer aided drafting and modeling Lab												
3	Manufacturing technology Lab												
4	Fluid mechanics and machinery Lab												
5	Automotive Components Lab												
6	Engine Performance and Emission Testing Lab												
7	Computer Aided Machine Drawing Lab												
8	Strength of Materials Lab												
9	Automotive Electrical and Electronics Lab												
10	Automotive Fuels and Lubricants Lab												
11	Computer Aided Engine Design Lab												
12	Computer Aided Chassis Design Lab											[]	
13	Two and Three Wheelers Lab												
14	Vehicle Maintenance and Re-conditioning Lab												
15	CAD/CAM Lab												

#### **Programme Outcomes**

The programme outcomes are in align with the NBA graduate attributes

The programme is preparing the graduates

PO1: To apply knowledge of mathematics, science and engineering in the field of automobile engineering PO2: To design and conduct experiments, as well as to analyze and interpret data related to automobile engineering

PO3: To design a system, component, or process to meet desired the automotive needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability & sustainability

PO4: To identify, formulate, and solve complex automobile engineering problems.

PO5: To use the techniques, skills, and modern engineering tools necessary for automobile engineering practice.

PO6: To apply knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering Practice

PO7: To understand the impact of engineering solutions in a global, economic, environmental, and societal context

PO8: To demonstrate professional and ethical responsibility

PO9: To work in teams and apply interpersonal skills in engineering contexts

PO10: To communicate effectively with a wide range of both engineering and non-engineering personnel

PO11: To follow management and financial principles and apply them in execution of projects

PO12: To lay a foundation for continued learning beyond graduation

Sino	Laboratory Description	POs attained (12)	% of Points afford
1	Workshop Practice	4	33.33
2	Computer aided drafting and modelling lab.	7	58.33
3	Manufacturing technology Laboratory	8	66.67
4	Fluid mechanics and machinery	4	33.33
5	Automotive Components Laboratory	5	41.67
6	Engine Performance and Emission Testing Laboratory	9	75.00
7	Computer Aided Machine Drawing Laboratory	7	58.33
8	Strength of Materials Lab	5	41.67
9	Automotive Electrical and Electronics Laboratory	6	50.00
10	Automotive Fuels and Lubricants Laboratory	7	58.33
11	Computer Aided Engine Design Lab	8	66.67
12	Computer Aided Chassis Design Lab	8	66.67
13	Two and Three Wheelers Lab	5	41.67
14	Vehicle Maintenance and Reconditioning Lab	5	41.67
15	CAD/CAM Lab	6	50.00





Graph of Every Individual Lab With Respect To Well Equipped Lab Points Obtained In %

## 6.3.2Availability of computing facilities in the department

S.	Description	Number of
110.		computers
1	Automobile Department	28

(Instruction: Assessment based on the information provided in the preceding table.)

Availability of computing facilities in the department

S. No.	Laboratories Description in the curriculum	Number of experiments	Number of computers
1.	Computer aided drafting and modelling lab.	10	
2.	Computer Aided Machine Drawing Laboratory	10	
3.	Computer Aided Engine Design Laboratory	10	24
4.	Computer Aided Chassis Design Laboratory	11	
5.	CAD and CAM Laboratory	11	
6.	Engine Performance and Emission Testing Laboratory	11	01
7.	Strength of Materials Lab	10	01
8.	Two and Three Wheelers Laboratory	12	01
9.	Vehicle Maintenance and Reconditioning Laboratory	11	01

Total = 28

# 6.3.3Availability of laboratories with technical support within and beyond working hours (15)

	-		
		Technical	Technical
S.	Description	Support	Support
No.	Ĩ	Within	Beyond
		Working	Working
		Hour	Hour
	No of Automobile		
1	Department	15	3
	Laboratories		

### 6.3.3 Availability of laboratories with technical support within and beyond working hours (15) Institute Marks: 15.00

(Instruction: Assessment based on the information provided in the preceding table.)

Availability of laboratories with technical support within and beyond working hours

		Technical support				
S. No.	Laboratories description in the curriculum	Within working Hour	Beyond Working Hour	Number of experiments	Condition of instruments	Laboratory manuals
1.	Workshop Practice	Available	-	12	Good	Available
2.	Computer aided drafting and modelling lab.	Available	-	10	Good	Available
3.	Manufacturing technology Laboratory	Available	Available	13	Good	Available
4.	Fluid mechanics and machinery	Available	-	11	Good	Available
5.	Automotive Components Laboratory	Available	-	12	Good	Available
6.	Engine Performance and Emission Testing	Available	Available	10	Good	Available
7.	Computer Aided Machine Drawing Laboratory	Available	-	12	Good	Available
8.	Strength of Materials Lab	Available	-	11	Good	Available
9.	Automotive Electrical and Electronics	Available	-	21	Good	Available
10.	Automotive Fuels and Lubricants Laboratory	Available	-	15	Good	Available
11.	Computer Aided Engine Design Laboratory	Available	-	10	Good	Available
12.	Computer Aided Chassis Design Laboratory	Available	-	11	Good	Available
13.	Two and Three Wheelers Laboratory	Available	-	10	Good	Available
14.	Vehicle Maintenance and Re- conditioning	Available	-	11	Good	Available
15.	CAD and CAM Laboratory	Available	Available	11	Good	Available

# 6.3.4 Equipment to run experiments and their maintenance, number of students per experimental setup, size of the laboratories, over all ambience, etc (10) Institute Marks: 10.00

(Instruction: Assessment based on the information provided in the preceding table.)

Equipment to run experiments and the maintenance, number of students per experiment set up, size of the laboratories, over all ambience, etc.,

S. No	Laboratories description in the Curriculum (CSA- Sqm)	Experiment	Equipment	No. of students/exp. setup
1.	Computer aided drafting and Modelling lab. (120)	10	24 computers with 15 licensed software	1 student/computer
		Facing, plain turning and step turning Taper turning using compound rest		
		Taper turning using taper turning attachment	5 no Centre Lathe with	2 Students/ Lathe
		Single start V thread, cutting and knurling	accessories	
		Boring and internal thread cutting.		
		Machining a V- block (in a Shaper	<b>a G1 i</b>	
2.	Manufacturing	Machining hexagonal shape (in a Shaper)	2 no Shaping Machine	2 students/machine
	technology Laboratory (239.4)	Machining internal key-way (in a slotter)	1 no Slotting Machine	2 students
		Drilling 4 or 6 holes at a given pitch circle on a plate	2 no Radial Drilling Machine	2 students/machine
		Drilling, reaming and tapping	2 no Upright Drilling Machine	2 students/machine
		Plain Milling Exercise	2 no milling	
		Gear Milling Exercise	2 no. – mining machine	2 students/machine
		Cylindrical Grinding Exercise	1 no. – cylindrical grinding machine	2 students
			1 no – Orifice	
		Orifice and Venturi meter	meter setup	3 students/ setup
			1 no – Venturi meter setup	
3.	Fluid mechanics and machinery	Rate the flow using rota meter	1 no. – Rota meter setup	3 students
	(171)	Friction factor of given set of pipes	1 no Pipe flow analysis setup	3 students
		the characteristic curves of centrifugal pump/ Submergible pump	1 no Centrifugal pump/submergible pump setup	3 students

		The characteristic curves of reciprocating Pump	1 no Reciprocating pump setup	3 students
		The characteristic curves of Gear pump.	1 no Gear pump setup	3 students
		The characteristic curves of Pelton wheel.	1 no Pelton wheel setup	3 students
		The characteristics curve of Francis Turbine.	1 no Francis turbine setup	3 students
		the characteristic curves of Kaplan turbine	1 no Kaplan turbine setup	3 students
		Flow visualization experiment	1 no Flow visualization experiment	3 students
		Dismantling and study of multi- cylinder Petrol engine	1 no Multi cylinder petrol engine	2 students
		Assembling of Multi-cylinder Petrol Engine	1 no Multi cylinder petrol engine	2 students
		Dismantling and study of Multi- cylinder Diesel Engine	1 no Multi Cylinder Diesel Engine	2 students
	Automotive Components Laboratory (171)	Assembling of Multi-cylinder Diesel Engine	1 no Multi Cylinder Diesel Engine	2 students
		Study of petrol engine fuel system	1 no petrol engine fuel system	2 students
		Study of diesel engine fuel system	1 no Heavy duty vehicle chassis frame	2 students
4.		Study and measurement of light and heavy commercial	1 no Light duty vehicle chassis frame	2 students/each no.
		Vehicle Frame		2 students/each no.
		Study, dismantling and assembling of front and	2 no Front axle	2 students/each no.
		rear Axles	2 no. – Rear axle	2 students/each no.
		Study, dismantling and assembling of differential	2 no Differential	2 students/each no.
		Study, dismantling and assembling of Clutch	2 no Clutch and Gear box	2 students/each no
		Study, dismantling and assembling of Clutch	2 no Clutch and Gear box	2 students/each no.
		Study of steering system	4 no Steering systems with different gearboxes	4 students/each gearboxes

		Study of hydraulic, electrical and eddy current	1 no Hydraulic dynamometer	2 students
		dynamometers	1 no Eddy current dynamometer	2 students
			1 no Electrical dynamometer	2 students
5.		Valve timing and port timing	1 no Single cylinder Two stroke cut section engine	2 students
		diagram	1 no Single cylinder four stroke cut section engine	2 students
		Performance and emission test on two wheeler SI engine	1 no Two- wheeler engine test rig	2 students
		Performance and emission test on automotive multi-cylinder SI engine	1 no Automotive multi cylinder SI engine test rig with heat balance arrangement	2 students
	Engine Performance and Emission Testing Laboratory (171)	Performance and emission test on automotive multi-cylinder CI engine	1 no Automotive multi cylinder CI engine test rig with heat balance	2 students
		Retardation test on I.C. Engines	1 no Automotive multi cylinder SI engine test rig with heat balance arrangement	2 students
		Heat balance test on automotive multi-cylinder SI engine	1 no Emission measuring instruments for petrol engine	2 students
		Heat balance test on automotive multi-cylinder CI engine	1 no Emission measuring instruments for diesel engine	2 students
		Morse test on multi-cylinder SI engine	1 no Automotive multi cylinder SI engine test rig	2 students
		P-θ and P-V diagrams for IC engine with piezo electric pick up, charge amplifier, angle encoder and PC	1 set - Piezo- electric pick up, Charge Amplifier, Angle Encoder and PC	2 students

6.	Computer Aided	Drawing of automobile	30 no. of computer	
	Machine	components and	nodes, 15 licensed	1 student per
	Drawing Laboratory	Assembly drawing	AutoCAD	computer
	(69.38)		software, 5nos.	computer
			PRO-E software	
		Tension test on a mild steel rod	I no. universal	
		Double shear test on mild steel and	machine with	2 students
		aluminium rods	double	2 - students
			shear attachment	
		Torsion test on mild steel rod	1 no Torsion	
			Testing Machine	2 - students
			(60 NM Capacity)	
		Impact test on metal specimen	Impact Testing	
			Machine (300 J	4 - students
			Capacity)	
		Hardness test on metals Brinnell	1 no Brinnell	
		Hardness	Hardness Testing	2 - students
		Hardness test on metals Rockwell		
		Hardness	1 IIO KOCKWEII Hardness Testing	2 - students
		Number	Machine	2 - students
		Deflection test on beams	1 no - Deflection	
		test set up	4 - students	
		Compression test on helical	Spring Testing	
		springs	Machine for tensile	
	Strength of Materials		and	4 - students
			compressive loads	
7.	Lab	Strain Measurement using Posette	(2300  N)	
	(69.38)	strain gauge	strain gauge	2 - students
		Effect of hardening- Improvement	1 no Spring	
		in hardness and impact resistance	Testing Machine	
		of steels	for tensile and	4 - students
			compressive loads	i stadents
			(2500 N)	
		Tempering- Improvement		
		Mechanical properties		
		Comparison		
		(i) Unhardened specimen		
			1 no Muffle	2 - students
		(ii) Quenched Specimen	Furnace (800 C),	
		and	1 no	
		(iii) Ovenched and	Metallurgical	
		(iii) Quenened and	Microscopes	
		Microscopic Examination of		
		(1) Hardened samples		2 - students
		(11) Hardened and tempered		
		samples		

		Testing of batteries and battery maintenance	1 no Battery, hydrometer, voltage tester	2 - students
		Testing of starting motors and generators	1 no Starter motor, cut-out	2 – students
		Testing of regulators and cut – outs	1 no regulator, cut-out	2 – students
		Diagnosis of ignition system faults	1 no Distributor, ignition coil, spark plug	2 – students
		Study of Automobile electrical wiring	1 no Auto electrical wiring system	2 – students
		Study of rectifiers and filters	1 no. Rectifiers, filters	2 – students
		Study of logic gates, adder and flip-flops	1 no Amplifier	2 – students
		Study of SCR and IC timer	1 no IC timer	2 – students
8.	Automotive Electrical and Electronics Laboratory (69.38)	Interfacing Sensors like RTD, LVDT, Load Cell etc	1 no IC timer, amplifier	2 – students
		Interfacing ADC for Data Acquisition	Data logger - 1 No	
		Application		
		Interfacing A/D converter and simple data acquisition	8085 trainer kit - 10 No s	
		Micro controller programming and interfacing	ADC interface board - 2 No s	10
		Interfacing Actuators	DAC interface board - 2 No s	students/trainer kit
		EPROM Programming	Sensors like RTD, Load cell, LVDT - 2 No s	
			Actuators like stepper motor - 2 No s	

		Testing of fuels - Ultimate analysis,	1noUltimate analysis apparatus	1student per	
		proximate analysis	1noproximate Analysis apparatus	apparatus	
		ASTM distillation test of liquid fuels	ASTM distillation test Apparatus	1student per apparatus	
		Aniline Point test of diesel	Aniline point Apparatus	1student per apparatus	
		Calorific value of liquid fuel	Bomb Calorimeters	1student per apparatus	
		Calorific value of gaseous fuel	Gas Calorimeters	1student per apparatus	
		Reid vapour pressure test.	Reid vapour pressure test Apparatus	1student per apparatus	
9.	Automotive Fuels and Lubricants Laboratory (69.38)	Flash and Fire points of petrol and diesel	Abels flash and fire point apparatus	1student per apparatus	
		Copper strip Corrosion Test	Copper Strip Corrosion Test Apparatus	1 student per apparatus	
		Cloud & Pour point Test	Cloud and Pour point Apparatus	1 student per apparatus	
		Temperature dependence of viscosity of lubricants & Fuels by Redwood Viscometer	Redwood Viscometer	1 student per apparatus	
		Viscosity Index of lubricants &Fuels by Say bolt Viscometer	Say bolt Viscometer	1 student per apparatus	
		Ash content and Carbon Residue Test	Ash content Test Apparatus	1 student per apparatus	
		Drop point of grease and mechanical penetration in grease	Drop point and penetration Apparatus for grease	1 student per apparatus	

10. Computer Aid Engine Design I (69.38)	<ul> <li>Design and drawing of piston</li> <li>Design of connecting rod small end and big end, shank design, design of big end cap, bolts and drawing of the connecting rod assembly.</li> <li>Design of crankshaft, balancing weight calculations</li> <li>Development of short and long crank arms, front end and rear end details, drawing of the crankshaft assembly</li> <li>Design and drawing of flywheel</li> <li>Ring gear design, drawing of The flywheel including the development of ring gear teeth.</li> <li>Design and drawing of the inlet and exhaust valves</li> <li>Design of cam and camshaft, Cam profile generation, drawing of cam and camshaft</li> </ul>	Computer nodes– 15Nos.	2–students per computer
	Design of combustion chamber		

		Complete design of clutch components		
11. Comput Chassis D (69.		Assembly drawing of clutch using drafting software.		
		Gear train calculations		
		Layout of gear box.		
		Calculation of bearing loads		
	Computer Aided	puter Aided Selection of bearings.		
	Chassis Design Lab (69.38)	Assembly drawing of gear box using drafting software	Computer nodes- 15Nos	2-students
		Design of propeller shaft.		
		Design details of final drive gearing.	AutoCADorPro-E-	per computer
		Design details of full floating, semi-	15licenses	
		floating and three quarter float in gear		
		shafts and rear axle housings		
		Design aspects of final drive		

		Performance test of a two wheeler using chassis dynamometer	1 no. –Two wheeler chassis dynamometer	2 students per equipment
		Performance test on shock absorber	1 noShock absorber test rig	2 students per equipment
		Performance test on coil spring	1 no. –Coil spring test rig	2 students per equipment
		Two wheeler chain test	1no chaintension	2studentsper equipment
12.		Brake and Clutch adjustment as per specification	2noTwo- wheeler clutch	2studentsper equipment
	Two And Three Wheelers Lab (239.4)	Dismantling and assembling of two wheeler gear box and findinggearratios	2nosTwo- wheeler gearbox	2studentsper equipment
		Dismantling and assembling of three wheeler gear box and finding gear ratios	2nosThree- wheeler gearbox	2studentsper equipment
		Three wheeler brake and clutch play adjustment	2nosThree- wheeler brake	2studentsper equipment
		Dismantling and assembling of three wheeler steering system	2 nosThree- wheeler steering assembly	2 students per equipment
		Study of three wheeler chassis frame and power transmission system	-	2 students

13.		Study and layout of an automobile repair, service and maintenance shop	Service manuals	3students
		Study and preparation of Different statements/records required for their pair and maintenance works.	dy and preparation of ferent statements/records uired for their pair and intenance works.	
		Cylinder re boring–checking the cylinder bore, Setting the tool and re boring	Cylinder re boring machine	3students
		Valve grinding, valve lapping -Setting the valve angle, grinding and lapping and checking for valve leakage	Valve lapping machine Valve grinding machine	3students
	Vehicle Maintenance And Reconditioning Lab	Calibration of fuel injection pump	Fuel injection Calibration test bench with nozzle tester	3students
	(239.4)	Minor and major tune up of gasoline and diesel engines	Engine analyzer, cylinder compression pressure gauge	3 students
		Study and checking of wheel alignment-testing of camber, caster	Tyre remover, wheel aligned apparatus, tachometer	3 students
		Testing king pin inclination, toe-in and toe-out	Cam angle and rpm tester	3 students
		Brake adjustment and Brake bleeding.	Brake System set up	3 students
		Simple tinkering, soldering works of body panels, study of door lock and window glass rising mechanisms	Under purchase	3 students
		Battery testing and maintenance	HRD tester, clamp on meter, hydrometer	3 students

			Hard wares	
14. Cad/ Cam Lab (69.38)		3D Geometric Modelling	Computer server 1No. Computer systems (Pentium IV with 256MBRam) networked to the server 15Nos. A3sizeplotter 2Nos. Laser Printer 2Nos. Trainer CNC lathes 2Nos. Trainer CNC milling 2Nos	2 students per system
		Manual CNC Part Programming Computer Aided Part Programming	Soft wares CAD/CAM Software – 15 licenses (Pro –E or IDEAS or Uni- graphics or CATIA) CAM Software – 15 licenses (CNC programming and tool path simulation for FANUC, Si	

## 6.4 Technical Manpower Support in the Department (15)

S.NO	Total No Of Technical Manpower	No of Technical manpower with degree	No of Technical manpower with Diploma	No of Technical manpower with ITI
1	9	2	2	5



6.4.1 Availability of adequate and qualified technical supporting staff for programme-specific laboratories (10)Institute Marks: 10.00

(Instruction: Assessment based on the information provided in the preceding table.)

 $\label{eq:alpha} A vailability of a dequate and qualified technical supporting staff for programme-specific laboratories$ 

Name of the Technical Staff	Designation	Pay- scale	Exclusive/ Shared work	Date of joining	Qualification at Joining Now	Other Technical Skills gained	Responsibility
Mr.R.Ramanathan	Professional Assistant I	12000	Exclusive	17/09/2007	Diploma B.E	Nil	Thermal Lab
Mr.K.Boothalingam pillai	Motor Mechanic	7500	Exclusive	03/10/2007	ITI	Nil	Automobile Lab
Mr.M.Sathishkumar	Motor Mechanic	7500	Exclusive	03/10/2007	ITI	Nil	Two and Three Wheeler Lab
Mr.M.Mahaprabhu	Technical Assistant	9000	Shared	15/07/2013	Diploma	Nil	Thermal Lab
Mr.S.Gowthaman	Technical Assistant	9000	Exclusive	15/07/2013	Diploma	Nil	Cad Lab
Mr.T.Venkatesh	Technical Assistant	6000	Shared	15/07/2013	ITI	Nil	Strength of Materials Lab
Mr.S.Sivakumar	Technical Assistant	6000	Shared	15/07/2013	ITI	Nil	Manufacturing Technology Lab
Mr.ATamilvendhan	Technical Assistant	6000	Shared	15/07/2013	ITI	Nil	Manufacturing Technology Lab
Miss. K.Narayani	Clerical Assistant	7000	Shared	10/04/2010	M.A	Nil	Mechanical Department

# 6.4.2Incentives, skill-upgrade, and professional advancement (5)

Institute Marks: 5.00

S.NO	Total No Of Technical Manpower	No of Technical manpower upgraded the qualification	No of Technical manpower upgraded in Incentive	No of Technical manpower upgraded in Skill	No of Technical manpower upgraded the professional advancement
1	9	2	9	Nil	Nil

(Instruction: Assessment based on the information provided in the preceding table.)

S. No.	Name of the teaching staff	Skill up grade
1	Mr. R.Ramanathan Professional Assistant III	B.E.(Mech.Engg./Part Time)-Completed- 2009-2012
2.	Mr. R.Ramanathan Professional Assistant I	M.E. (Thermal Engg./Part Time) pursuing2013-2016
3	Miss. K.Narayani Clerical Assistant	B.A., M.B.A(Finance)Pursuing 2013- 2015