



## Monthly Allocation of Syllabus

Skill Subject Name	Automotive
Class	9 <sup>th</sup>

Month	No. of Working Days		Title	No. of Teaching Periods	No. of Revision Periods
April	24	Automotive	Reading Skills, Introduction to Automobile Industry, Scope of Automobile	24	----
		Employability Skills	-----	---	---
May	23	Automotive	Unit-01 Session 01-Invention of Wheel Session 02-Wheel Cart Session 03-Invention of Automobile Session 04- Invention of Automobile(Post World War II)	10	03
		Employability Skills	Unit-01 Session 01- Introduction to communication Session 02-Verbal Communication Session 03- Non-Verbal Communication Session 04-Writing Skills Parts of speech	08	02
June			Summer Vacations from 1 <sup>st</sup> June to 30 <sup>th</sup> June		
July	25	Automotive	Unit-02 Session 01- Two Wheeler and three Wheeler Session 02- Passenger Vehicles and Commercial Vehicle Session 03- Agricultural Vehicle Session 04- Construction Equipment Vehicle Session 05- Special Vehicle	10	07
		Employability Skills	Unit-01 Session 05- Writing Skills Sentences Session 06-Pronunciation Basics Session 07-Greeting and Introduction Session 08-Talking about Self Session 09-Asking Questions-I Session 10- Asking Question-II	06	02
August	23	Automotive	Unit 03- Session 01-Chassis and Body Session 02- Engine and its components Session 03-Lubrication System	10	03
		Employability Skills	Unit 02- Session 01-Introduction to Self-Management Session 02- Strength and Weakness Analysis Session 03- Self-Confidence Session 04-Positive Thinking Session 05-Personal Hygiene Session 06- Grooming	08	02
September	23	Automotive	Unit-03 Session 04- Cooling system Session 05-Fuel Supply System Session 06-Transmission system (Including revision of covered syllabus for half yearly exams)	10	04
		Employability Skills	Unit-03 Session 01- Introduction to ICT Session 02-ICT Tools- Smartphones and Tablets-I Session 04-Parts of Computer Pheripherals	06	03
October	21	Automotive	Unit-03 Session 07-Front and Rear Axle Session 08- Steering and Suspension system Session 09-Wheel,Tyre and Brake Session 10- Electrical or Electronic and Air Conditioning system	10	03



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		Employability Skills	Unit-03 Session 05-Basic Computer operations Session 06-Performing Basic File Operations Session 07-Communication and Networking-Basic of Internet Session 08-Communication and Networking-Internet Browsing	05	03
November	22	Automotive	Unit 03- Session 11-Active and Passive Safety Unit-04 Session 01-Importance of Road Safety Session 02- Safe and Responsible driving Session 03-Road Sign	12	04
		Employability Skills	Unit-03- Session 09-Communication and Networking- Introduction to E-mail Session 10- Creating E-mail account Session 11-Writing of an E-mail Session 12-Receiving and Replying to emails	04	02
December	25	Automotive	Unit-04- Session 04- Driving rules and Registration Session 05-Driving License Unit 06- Session 01-Importance of Vehicle Maintenance and Servicing Session 02- Tips to Extend Life of a Vehicle Session 03-Introduction to Vehicle Service Procedure	11	03
		Employability Skills	Unit 04- Session 01- What is Entrepreneurship Session 02- Role of Entrepreneurship Session 03-Qualities of a successful Entrepreneur	08	03
January	17	Automotive	Unit 05- Session 01-Air Pollution Session 02-Auto Emissions and EU/BS Standards Session 03-Qualities of a Successful Entrepreneur	06	01
		Employability Skills	Unit-04- Session 04-Distinguishing Characteristics of Entrepreneurship and Wage Employment Session 05-Types of Business Activities Session 06-Product,Service and Hybrid Businesses Session 07-Entrepreneurship Development Process	08	02
February	21	Automotive	Revision of Whole Syllabus	14	--
		Employability Skills	Unit-05- Session 01-Society and Environment Session 02-Conserving and Natural Resources Session 03- Sustainable Development and Green Economy	05	02
March	Final Examination				

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### Monthly Allocation of Syllabus

Skill Subject Name	Automotive
Class	10 <sup>th</sup>

Month	No. of Working Days		Title	No. of Teaching Periods	No. of Revision Periods
April	24	Automotive	Unit 1 Session-01 Chassis Session 2:- Body of Superstructure	11	4
		Employability Skills	Unit 1 Session 1 :- Methods of Communcation Session 2:- Verbal Communcation Session 3:- Non Verbal Communication	6	3
May	23	Automotive	Unit 1 :- Session 3:- Engine Session 4:- Lubrication System Session 5:- Cooling System Session 6:- Fuel Supply System	11	3
		Employability Skills	Unit 1:- Session 4:- Communication cycle & importance of feed back Session 5:- Barries to effective communication	7	2
June		Summer Vacations from 1 <sup>st</sup> June to 30 <sup>th</sup> June			
July	25	Automotive	Unit 1 Session 7 :- Transmission system Session 8:- Front Axle (including overall Revision of covered syllabus till July for First Assessment )	10	4
		Employability Skills	Unit 01 Session 06:- Writing Skills : Part of Speech Session 07:- Writing Skills :- Parts of Sentences	8	3
August	23	Automotive	Unit 1:- Session 09 :- Steering System Session 10 :- Rear Axle Session 11:- Suspension System Unit 2:- Session 01 :- General Tools Session 02:- Measuring Tools	8	04
		Employability Skills	Unit 2:- Session 01:- Stress Management Session 02 :- Sself Awareness Strength and weakness Session 03:- Self Motivation Session 4:- Self Regulation Goal Setting	08	03
September	23	Automotive	Unit 02:- Session 03:- Electrical Tools Session 04:- Special Tools Session 05:- Service workshop Equipment	10	04
		Employability Skills	Revision for Half Yearly		03
October	21	Automotive	Unit 01:- Session 12 :- Wheel and Tyre Session 13:- Brakes Session 14 :- Electrical and Electronic System	10	03
		Employability Skills	Unit 03:- Session :- Basic Computer Operations Sessions 02:- Performing Basic file operations	05	03
November	22	Automotive	Unit 03:- Session 01:- Washing of Vehicle Session 2:- Changing of oil and oil filter Session 03:- Changing of Air Filter ( Including Revision for SAT preparation )	13	03
		Employability Skills	Unit 03:- Session 03:- Computer care and file management Session 04:- Computer Security and Privacy	04	02
December	25	Automotive	Unit 03:- Session 04:- Changing of fuel filter Session 05:- Changing of Coolant	14	04
		Employability Skills	Unit 03 Session 05 :- Self Regulation Goal setting Unit 4 Session 1:-Entrepreneurship and Society	5	2
January	17	Automotive	Innovation and Development	06	03
		Employability Skills	Unit 04:- Session 2:- Qualities and Functions of an Entrepreneur Session 03:- Myths about Entrepreneurship Session 04:- Entrepreneurship as a carrer option (including	05	03



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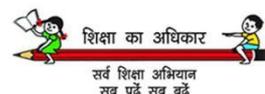


			preparation of pre-board Assessment)		
February	21	Automotive	Overall Revision		14
		Employability Skills	Unit 05:- Green Skill Session 01 :- Sustainable Development Session 02:- Our Role to Sustainable Development (including full revision of syllabus)	05	02
March	Final Examination				

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### Monthly Allocation of Syllabus

Skill Subject Name	Automotive
Class	11 <sup>th</sup>

Month	No. of Working Days		Title	No. of Teaching Periods	No. of Revision Periods
April					
May					
June		Summer Vacations from 1 <sup>st</sup> June to 30 <sup>th</sup> June			
July	25	Automotive	Unit 01:- Session 01:- Basic Geomatic Constructions Session 02:- Tools of Engineerig Drawing	12	5
		Employability Skills	Unit 01 :- Session 01:- Introduction to Communication Session 02:- Verbal Communication Session 03:- Non-verbal Communication Session 04:- Pronunciation Basics Session 05:- Communication Styles Assertiveness	05	03
August	23	Automotive	Unit 02:- Session 01:- Automotive bolts and Machine Screws Session 02:- Automotive Nuts Session 03:- Automotive Studs Session 04:- Automotive washer and Rivets Session 05:- Removal and replacement of damaged fastners	10	02
		Employability Skills	Unit 01:- Session 06:- Saying NoRefusal Skills Session 7:- Writing Skills – Parts of Speech Session 08:- Writing Skills – Sentences Session 09:- Greeting and Introduction Session 10:- Talking About Self Session 11:- Asking Questions Session 12 :- Talking about Family Session 13:- Describing Habits and Routines Session 14:- Asking for Directions	10	01
September	23	Automotive	Unit 03:- Session 01 :- Engineering Material Session 02:- Basic Manufacturing Process	06	06
		Employability Skills	Unit 02:- Session 01:- Strength and Weakness Analysis Session 02:- Grooming Session 03:- Personal Hygiene Session 04:- Team Work Session 05:- Networking Skills	08	03
October	21	Automotive	Unit 04:- Session 01:- Handling and usage of direct and indirect measuring instruments Session 02:- Angular Measuring instruments Session 03:- Dial Indicator or Gauge and other gauges Session 04:- Instrument on the dashboard of a vehicle	10	03
		Employability Skills	Unit 02:- Session 06:- Self-Motivation Session 07:- Goal Setting Session 08:- Time Management Unit 03:- Session 01 :- Introduction to ICT Session 02:- Basic Interface of Libre office writer Session 03:- Saving, Closing, Opening and printing Document	06	02
November	22	Automotive	Unit 05:- Session 01:- Inspection of an Engine Session 02:- Washing of an Engine Session 03:- Tuning of Fuel System of an Engine Session 04:- Tuning of Ignition System of an Engine Session 05:- Tuning of Lubrication of system of an Engine	12	03
		Employability Skills	Unit 03:- Session 04:- Formatting text in a word Document Session 05:- Checking spelling and Grammer Session 06:- Inserting Lists, Tables, Pictures and Shapes Session 07:- Header, Footer and Page Number	05	02



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आज़ादी का  
अमृत महोत्सव

Month	Date	Subject	Session	Hours	Credits
December	25	Automotive	Session 08:- Tracking changes in Libre office writer Unit 05:- Session 06:- Tuning of cooling system of an engine Session 07:- Tightening of Fasteners (Nuts, Bolts and Screws) Session 08:- Engine Timing (Tuning ) Unit 06:-Session 01:- Transmission System Session 02:- Clutch Maintenance and Adjustment Unit 07 :- Session 01:- Lubrication of Gear Box Session 02:- Setting of Gear Box	14	06
		Employability Skills	Unit 04:- Session 01:- Introduction to Entrepreneur Session 02:- Values of an Entrepreneur Session 03:-Attitude of an Entrepreneur Session 04:- Thinking like an Entrepreneur Session 05:- Coming up with a Business Idea Session 06:- Understanding the Market Session 07:- Business Planning	04	01
January	17	Automotive	Unit 08:- Session 01 :- Importance of Wheels Session 02:- Importance of Hub Greasing and Bearing play Adjustment Session 03:- Tyre and tube Maintenance Session 04:- Repairing of Punctured Tube	08	03
		Employability Skills	Unit 05:- Session 01:- Sectors of Green Economy Session 02:- Policies for a green Economy Session 03:- Stakeholders in green Economy Session 04:Government and Private Agencies	04	02
February	21	Automotive	Unit 09:- Session 01:- Brake and its Mainytence ( Revision of Whole syllabus)	02	14
		Employability Skills	Revision of Whole syllabus	---	05
March		Final Examination			

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## Monthly Allocation of Syllabus

Skill Subject Name	Automotive
Class	12 <sup>th</sup>

Month	No. of Working Days		Title	No. of Teaching Periods	No. of Revision Periods
April	24	Automotive	Unit 1 Session-01 Service Manual	03	01
		Employability Skills	Unit 1 Session 1 :- Active Listening Session 2:- Parts of Speech Session 3:- Writing Sentences	14	06
May	23	Automotive	Unit 2 :- Session 1:- Reconditioning of Valve Mechanism Session 2:- Replacement of Piston Rings Session 3:- Inspection and replacement of cylinder liner/bore sleeve, connecting rod and engine bearing.	12	4
		Employability Skills	Unit 2: Session 1:- Motivation and Positive Attitude Session 2:- Result Orientation Session 3:- Self Awareness	5	2
June		Summer Vacations from 1 <sup>st</sup> June to 30 <sup>th</sup> June			
July	25	Automotive	Unit 2 Session 4 :- Testing of cooling system and replacement of defective components. Session 5:- Regular Servicing of MPFI	9	3
		Employability Skills	Unit 03 Session 01:- Getting started with Spreadsheet Session 02:- Performing Basic Operation in a Spreadsheet Session 03:- Working with Data and Formatting Text Session 04:- Advanced Features in Spreadsheet	9	04
August	23	Automotive	Unit :- 2 Session 06 :- CRDI and non CRDI system Unit 3:- Session 01 :- Overhauling of Clutch Session 02:- Servicing of Propeller shaft, universal and slip joints	08	02
		Employability Skills	Unit 3:- Session 05:- Presentation Software Session 06 :- Opening, Closing, Saving and Printing a Presentation Session 07:- Working with slides and text in a Presentation Session 08:- Advanced Features used in Presentation	10	03
September	23	Automotive	Unit 03:- Session 03:- Servicing of Differential unit and adjustment. Session 04:- Automatic transmission system Unit 04:- Session 01:- Maintenance of suspension of suspension system Session 02:- Service and repair of leaf spring set etc. (Including revision of covered syllabus for half yearly exams.)	13	04
		Employability Skills	Unit 04:- Session 01:- Entrepreneurship and Entrepreneur Session 02:- Barrier to Entrepreneurship	04	02
October	21	Automotive	Unit 04:- Session 03 :- Replacement of strut/shock absorber, steering linkage. Session 04:- Inspection of steering linkage	12	04



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			Session 05:- Manual and power steering system Session 06 :- Steering system adjustment		
		Employability Skills	Unit 04:- Session 03:- Entrepreneurial Attitudes Session 04:- Entrepreneurial Competencies	04	01
November	22	Automotive	Unit 05:- Session 01:- Automotive Electrical and Electronics symbol, reading circuit diagram, cable specification and colour codes, wiring harness. Session 2:- Electrical test equipment	10	05
		Employability Skills	Unit 05:- Session 01:- Green Jobs Session 02:- Importance of Green Jobs	05	02
December	25	Automotive	Unit 05:- Session 03:- Battery and its maintenance Session 04:- Checking of electrical connections of lighting system in a vehicle Session 05:- Application and replacement of fuses Session 06:- Circuit diagram of charging system of automobile and checking of charging system	16	04
		Employability Skills	Project Work for Spreadsheets	5	
January	17	Automotive	Unit 05:- Session 07:- Circuit diagram of charging system of automobile and checking of charging system Session 08:- Circuit diagram of ignition system and checking of ignition circuit. Session 09:- Maintenance and servicing of major electrical accessories	10	03
		Employability Skills	Project Work for Presentation Software.	04	
February	21	Automotive	Session 10:- Introduction of climate control system and heating ventilation and air conditioning in a vehicle. Revision of whole syllabus	14	
		Employability Skills	Revision of whole syllabus	07	
March			Final Examination		

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