



BOARD OF SCHOOL EDUCATION HARYANA

Syllabus and Chapter wise division of Marks (2026-27)

Class- 9th

Subject: Automotive

Code: AUT 926

General Instructions:

1. There will be an Annual Examination based on the entire syllabus.
2. The Annual Examination will be of 60/2=30 marks, Practical Examination will be of 50 marks and 20 marks weightage shall be for Internal Assessment.
3. . For External Assessment (Practical) Examination:
 - (i) External Assessment- Hand on Skill of 25 (Written 10, Practical 15).
 - (ii) External Assessment- Portfolio of 10.
 - (iii) External Assessment- Viva of 15.

4. For Internal Assessment:

There will be Periodic Assessment that would include:

- i) For 6 marks- Three SAT exams will be conducted and will have a weightage of 06 marks towards the final Internal Assessment.
- ii) For 2 marks- One half yearly exam will be conducted and will have a weightage of 02 marks towards the final Internal Assessment.
- iii) For 2 marks- Subject teacher will assess and give maximum 02 marks for CRP (Class room participation).
- iv) For 5 marks- A project work to be done by students and will have a weightage of 05 marks towards the final Internal Assessment.
- v) For 5 marks- Attendance of student will be awarded 05 marks as:

75% to 80%	- 01 Marks
Above 80% to 85%	- 02 Marks
Above 85% to 90%	- 03 Marks
Above 90% to 95%	- 04 Marks
Above 95% to -	- 05 Marks



Course Structure (2026-27)

Class- 9th

Subject: Automotive

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Unit. No.	Unit Name	Unit Marks
1	History and Evolution of Automobiles	05
2	Various Types of Automobiles	08
3	System and Component of Automobile	12
4	Road Safety	09
5	Automobile and our Environment	04
6	Vehicle Maintenance and Service	08
7	Innovation and Development in Automobile	04
Unit. No.	Employability Skill Units	Unit Marks
1.	Communication Skills	2
2.	Self-Management Skills	2
3.	Information and Communication Technology Skills	2
4.	Entrepreneurship Skills	2
5.	Green Skills	2
Total		60/2=30
Practical Examination		50
Internal Assessment		20
Grand Total		100



Unit 1: History and Evolution of Automobile

Invention of Wheel, Wheel and its Structure Wheel cart, type of cart
Invention of Automobile Invention of Automobile (post World War ii), Indian
Automobile Scenario.

Unit 2: Various Types of Automobiles

Two wheeler and three wheeler Passenger and commercial vehicle
Agriculture Vehicle, Combine Harvester Construction Equipment Vehicle Like
– Bulldozer, Road Roller, Dumper, Excavator Etc. Special Vehicle

Unit 3: Major Systems and Components of An Automobile

Chassis and Auto Body ,Automobile Body or Super structure Engine and
its components SI and CI Engine, Component of IC Engine Lubrication System,
Objective of Lubrication, Cooling System ,Necessity of cooling Fuel supply
system ,fuel supply component, Transmission System ,Requirement of Clutch,
main parts of clutch, function of gear box. Front and rear axle , Propeller shaft
.Steering and suspension system ,function of steering system, Requirement of
good steering system, various component of suspension system, Wheel tyre and
Brake, Function of wheel ,function of tyre ,requirement of good breaking
system, type of brake. Electrical or electronic and AC, Component of AC,
Active and Passive Safety

Unit 4: Road Safety

Importance of Road safety, Safety devices Safe and responsible driving,
Know your blind spot, fasten your seat belt. Road sign Driving rule and
registration, Registration rule and process , Driving Licence.

Unit5: Automobile and Environment

Air Pollution, Auto Emission and EU/BS Standards ,Emission norms in
India PUC Certification.

Unit 6:Introduction to Vehicle Maintenance and Service

Importance of Vehicle Maintenance and Servicing. Tips to extend life
of vehicle Introduction to vehicle service procedure , Filling job card

Unit 7:Invention and Development in Automobile

Invention and development ,Electric car, hybrid vehicle, fuel cell, New
Development, G-CON



Employability Skill –

- Communication skill,
- Self-management skill,
- Information and Communication Technology skill (ICT),
- Entrepreneurship Skill,
- Green skills

Practical's: -

- 1. Wheel cart**
- 2. Two Wheelers**
- 3. Three wheelers**
- 4. Construction Vehicles**
- 5. Chassis**
- 6. Body**
- 7. Engine and its components**
- 8. Cooling system**
- 9. Fuel Supply System**
- 10. Transmission system**
- 11. Front and Rear Axle**
- 12. Steering and suspension system**
- 13. Wheel and tyre**
- 14. Brake.**
- 15. Safety Device**
- 16. Road sign.**
- 17. Driving Registration.**
- 18. Air Pollution.**
- 19. Job card.**
- 20. New Innovation.**



Month wise Syllabus Teaching Plan (2026-27)

Class- 9th

Subject: Automotive

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Month	Subject- content	Teaching Periods	Revision Periods	Practical Work
April	Automobile – Introduction of Automobile About Automobile Industry Scope of Automobile Employability Skill	6	2	3
May	Automobile – Unit -1 Session-1- Invention of Wheel ,Wheel and its Structure Session-2- Wheel cart ,type of cart Session-3- Invention of Automobile Session-4- Invention of Automobile (post World War ii), Indian Automobile Scenario. Employability Skill – Unit-01 Session 01- Introduction to communication Session 02-Verbal Communication Session 03- Non-Verbal Communication Session 04-Writing Skills Parts of speech	16	2	3
June	Home Work – Make all Practical of Unit .1 All Session Revision ES Session 1 to 4			
July	Automobile – Unit-2 Session-1- Two wheelers and three wheelers Session-2- Passenger Vehicles and commercial vehicles Session -3- Agricultural Vehicle ,Combine Harvester Session -4- Construction Equipment Vehicles Like – Bulldozer ,Road Roller, Dumper, Excavator Etc. S-5 – Special Vehicles Employability Skill – 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	12	06	07



August	Automobile – Unit-3 Session :1- Chassis and Auto Body ,Automobile Body or Superstructure Session :2- Engine and its components SI and CI Engine, Component of IC Engine Session :3- Lubrication System ,Objective of Lubrication Session :4- Cooling System, Necessity of cooling Employability Skill – 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	16	04	04
September	Revision for Half-Yearly Exam Automobile – Unit -3 Session : 5- Fuel supply system ,fuel supply component Session :6 – Transmission System , Requirement of Clutch, main parts of clutch, function of gear box. Session :7- Front and rear axle ,Propeller shaft . Employability Skill Unit-03 Session 01- Introduction to ICT Session 02-ICT Tools- Smartphones and Tablets-I Session -03- Smartphones and Tablets-II Session 04-Parts of Computer Peripherals Half-Yearly Exam	14	06	03



October	Automobile – Unit-3 Session :8-Steering and suspension system, function of steering system, Requirement of good steering system, various component of suspension system Session :9 -Wheel tyre and Brake, Function of wheel ,function of tyre , requirement of good breaking system, type of brake. Session : 10-Electrical or electronic and AC, Component of AC Session : 11-Active and Passive Safety Employability Skill 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	12	02	06
November	Automobile –Unit-4 Session : 1- Importance of Road safety, Safety devices Session :2-Safe and responsible driving , Know your blind spot, fasten your seat belt. Session : 3-Road signs Session :4-Driving rule and registration, Registration rule and process Session: 5 Driving Licence Employability Skill – 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	10	05	07



December	Automobile –Unit-5 Session :-1-Air Pollution Session : 2-Auto Emission and EU/BS Standards ,Emission norms in India Session :3-PUC Certification Unit-6 Session :1-Importance of vehicle Maintenance and servicing ,Daily inspection, maintenance check-up Session : 2-Tips to extend life of vehicle Employability Skill – Unit 04 Session 01- What is Entrepreneurship Session 02- Role of Entrepreneurship Session 03-Qualities of a successful Entrepreneur	15	03	06
January	Automobile –Unit-6 Session : 3-Introduction to vehicle service procedure ,Filling job card Unit-7 Session :-1-Innovation and development , Electric car, hybrid vehicle, fuel cell, New Development, G-CON Employability Skill – 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 Employability Skill –Unit-05 Session 01-Society and Environment Session 02-Conserving and Natural Resources Session 03- Sustainable Development and Green Economy	10		02
February	Revision		10	
March	Annual Examination			



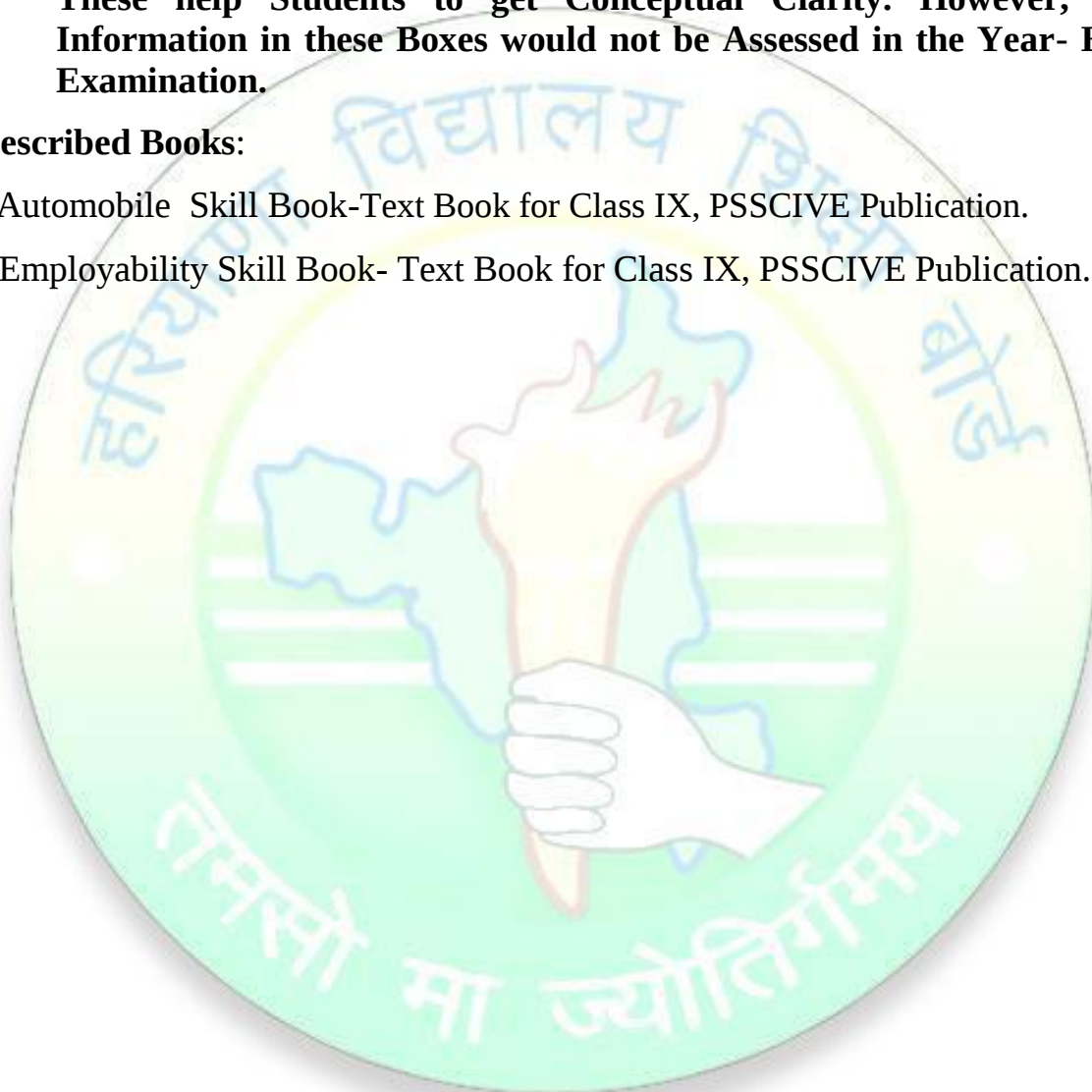
Note:

Skill Subject Teachers are advised to direct the students to prepare Practical Notebook of the Terminology/Definitional Words/ Glossary used in the Chapters for Enhancement of Vocabulary or Clarity of the Concept.

- **The PSSCIVE Skill Textbook Present Information in Boxes the book. These help Students to get Conceptual Clarity. However, the Information in these Boxes would not be Assessed in the Year- End Examination.**

Prescribed Books:

1. Automobile Skill Book-Text Book for Class IX, PSSCIVE Publication.
2. Employability Skill Book- Text Book for Class IX, PSSCIVE Publication.





NSQF Question Paper Design (2026-27)

Class- 9th

Subject: Automotive

Code: AUT 926

Time :- 2 Hours 30 Minutes

Competencies	Total
Knowledge	40%
Understanding	30%
Application	20%
Skill	10%
	100%

Type of Question	Marks	Number	Description	Total Marks
Objective Questions	1	15	6 Multiple Choice Questions, 3 Fill in the Blanks Questions, 3 One Word Answer Type Questions, 3 Assertion-Reason Questions true/false	15
Very Short Answer Type Question	2	6	Internal choice will be given in any 2 questions	12
Short Answer Type Question	3	6	Internal choice will be given in any 2 questions	18
Essay Answer Type Question	5	3	Internal options will be given in all the questions	15
Total		30		60