

BOARD OF SCHOOL EDUCATION HARYANA

Syllabus and Chapter wise division of Marks (2024-25)

Class- 10th 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 (2024-25)

Class- 10th Subject: Automotive Code: AUT 926

Unit.	Unit Name	Unit
No.		Marks
1	Automobile and its component	20
2	Automobiles service tools	10
3	Vehicle Servicing	10
4	Customer Sales Care	05
5	Innovation and Development	05
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
1	Total	60/2=30
	Practical Examination	50
	Internal Assessment	20
1	Grand Total	100



Unit 1: Automobile and its component

Session 1: Chassis. Classifications of Chassis.

Session 2: Body or Superstructure -Different parts of Automobile body.

Session 3: Engine, technical terms used in engine.

Session 4: Lubrication System, Lubrication System, properties of good

lubricant

Session 5: Cooling System, method of cooling

Session 6: Fuel Supply System

Session 7: Transmission system, Type of Transmission, Universal joint,

type of universal joint.

Session 8: Front Axle. Front Axle, Stub axle Session 09: Steering system, Type of steering.

Session 10: Rear axle.

Session 11: Suspension system.

Session 12: Wheel and Tyre ,Types of tyres.

Session 13: Brakes, Brakes, Requirements of good breaking system.

Session 14: Electrical and Electronics System, Battery operation

Unit 2: Automobiles service tools

Session 1: General Tools- Hand tool

Session 2: Measuring Tools-Caliper, Screw gauge, Steel ruler.

Session 3: Electrical Tools- Multimeter, Tachometer, Hydrometer etc

Session 4: Special Tools

Session 5: Service Workshop Equipment

Unit 3: Vehicle Servicing

Session 1: Washing of a Vehicle Precaution during washing.

Session 2: Changing of Oil and oil filter

Session 3: Changing of Air Filter
Session 4: Changing of Fuel Filter
Session 5: Changing of Coolant.

* How to change stepwise engine oil & oil filter, air filter, fuel filter and coolant.

Unit 4: Customer Sales Care

Session 1: Customer Care: Customer Service, Important aspects of a

customer's service, Duties of a salesperson.

Unit5: Innovation and Development

Session 1: Innovation and Development:

Innovation and development, How innovation take place, Top 10 innovations, Top 5 best innovations in car safety technologies.



Unit 6: Employability Skill

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

Practical's: -

- 1. Chassis
- 2. Body
- 3. Engine
- 4. Lubrication System
- 5. Cooling system
- 6. Fuel supply system
- 7. Transmission system
- 8. Front Axle
- 9. Steering system
- 10. Rear Axle
- 11. Suspension System
- 12. Wheel and Tyre
- 13. Brake
- 14. Hand Tools
- 15. Electrical Tools
- 16. Special Tools.
- 17. Washing of vehicle.
- 18. Two post Lift.
- 19. Four Post Lift.
- 20. New Innovation.



Month wise Syllabus Teaching Plan (2024-25)

Class- 10th Subject: Automotive Code: AUT 926

Month	Subject- content	Teaching	Revision	Practical
		Periods	Periods	Work
April	Automobile – Unit-2	16	2	3
	Session :-1-Hand tools			
	Unit-1-			
	Session 1-Chassis, Classification of			
	Chassis	1		
	Session :-2-Body or Superstructure,	970		
,	Different parts of Automobile body.	100		
/	Employability Skill- Unit 1			
/	Session 1 :- Methods of Communications			
	Session 2:- Verbal Communications.	5	1	
	Session 3:- Non Verbal Communication			
May	Automobile –Unit -1	16	2	3
1	Session: 3- Engine, technical terms used in		•	V.
	engine			
1	Session: 4-Lubrication System, properties of			
1	good lubricant.			
1	Session: 5- Cooling system, method of			
1	cooling.			
	Session : 6-Fuel supply system, Type of		1	
	fuel supply system.			
	Employability Skill – Unit 1			
	Session 4:- Communication cycle &	100		
	importance of feed back Session5:- Barries to effective communication		-	
June	Home Work –			
Julie	Practical unit 1-session	1 to 6		
		7.60		
T 1	ES Revision Unit – Session		0.0	07
July	Automobile – Unit-1	12	06	07
	Session: 7- Transmission system, Type of			
	Transmission, Universal joint, type of			
	universal joint			
	Session: 8- Front Axle, Stub axle			
	Session:- 9-Steering System, Type of steering			
	gear. Employability Ckill Unit 01			
	Employability Skill – Unit 01 Sassian 06: Writing Skills: Part of Speech			
	Session 06:- Writing Skills: Part of Speech			
	Session 07:- Writing Skills :- Parts of			
	Sentences			



A .		1.0	0.4	0.4
August	Automobile –	16	04	04
	Unit-1-S-10- Rear axle			
	S-11- Suspension system			
	S-12- Wheel and Tyre ,Types of tyres.			
	S-13-Brakes, Requirments of goobreaking system,			
	S-14- Electrical and electronic system ,battery			
	operation			
	Employability Skill –			
	Unit 2:- Session 01:- Stress Management			
	Session 02 :- Self Awareness Strength and weakness			
	Session 03:- Self Motivation			
	Session 4:- Self Regulation Goal Setting			
September	Revision for Half-Yearly Exam Automobile –	14	0	03
•	Unit-2 S-2-Measuring tools, screw gauge.		6	
	S-3-Electrical tools, multi meter, tachometer,			
	hydrometer etc.			
	S-4- Special tools.			
	Employability Skill –			
	Revision of Half Yearly			
	Revision of flan Tearly			
October	Automobile –	12	0	0
	Unit-2-S-5- Service workshop Equipment		2	6
	Unit-3-S-1- Washing of Vehicle	C >		
	Precaution during washing.			
		100		
	S-2- Changing of oil and oil filter	07		
/ (,How to change engine oil yourself.			
/ /	Employability Skill –	1		
1 /1	Unit 03:- Session :- Basic Computer Operations		4	
	Sessions 02:- Performing Basic file operations			
November	Automobile –		05	07
November		10	03	07
1	Unit-3-S-3- Changing of air filter, step	10	1	
	S-4- Changing of fuel filter ,step. Changing of	_	1	
	coolant, step		1	
	Employability Skill –			
	Unit 03:- Session 03:- Computer care and file			
	management Session04:- Computer Security			
	and Privacy	1 4 P. C.		
December		15	0	06
	Unit-4-S-1- Customer Service, Important aspects		3	
	of a customer's service.			
	Employability Skill –			
	Unit 03 Session 05 :- Self Regulation Goal setting			
	Unit 4 Session 1:-Entrepreneurship and Society			



January	Automobile –	10		02
	Unit-5-S-1- Innovation and development			
	,How innovation take place ,top 10			
	innovations, top 5 best innovations in car			
	safety technologies.			
	Employability Skill –			
	Unit 04:- Session 2:- Qualities and Functions			
	of an Entrepreneur Session 03:- Myths about	2		
	Entrepreneurship Session 04:-			
	Entrepreneurship as a carrer option			
,	(including Unit 05:- Green Skill Session 01:-	0		
	Sustainable Development Session 02:- Our			
	Role to Sustainable Development (including			
	full revision of syllabus)05 02 March Final E	(1)		
February	Revision		10	
March	Annual Examination	(0	h 1	
1 14		0.	1	

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. Security Skill Book- Text Book for Class X, PSSCIVE Publication.
- 2.Employability Skill Book- Text Book for Class X, PSSCIVE Publication.



NSQF Question Paper Design (2024-25)

Code: AUT 926

Class- $10^{ ext{th}}$

Subject: Automotive Time 2 Hours 30 Minutes

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

Type of	Marks	Number	Description	Total
Question				Marks
Objective	1	15	6 Multiple Choice	15
Questions		0	Questions,	Cas 1
1 100	100	2	3 Fill in the Blanks	1
1		U~	Questions,	
			3 One Word Answer Type	
1	_ ~	7	Questions,	
1			3Assertion- Reason	1
1	_		Questions	1
			true/false	
Very Short	2	6	Internal choice will be given	12
Answer Type			in any 2 questions	
Question				
Short Answer	3	6	Internal choice will be given	18
Type	. 189		in any 2 questions	
Question				
Essay	5	3	Internal options will be	15
Answer Type			given in all the questions	
Question				
Total		30		60