## GUJARAT TECHNOLOGICAL UNIVERSITY

## Diploma in Automobile Engineering

Semester: 3

Subject Code

Subject Name MANUFACTURING PROCESS & MATERIALS TECHNOLOGY

Sr. No.	Course content
1.	ENGINEERING MATERIALS : 1.1 Introduction and properties of engineering material
	1.2 Classification of materials
	1.3 Factors to be considered while selecting material     1.4 Specification of metals as per LS.
	1.5 Different body building materials
2.	HEAT TREATMENT PROCESSES :
	2.1 Introduction of heat treatment
	2.2 Define heat treatment and list various objects of heat treatment
	2.3 Applications and Limitations of each heat treatment process
	2.4 List various auto parts which need heat treatment process
3.	INTRODUCTION TO MANUFACTURING PROCESSES:
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	3.2 Classification of manufacturing processes 3.3 Introduction and application of each process
	3.4 Types of production
4.	METAL WORKING PROCESSES :
	4.1 Hot and cold working processes
	4.2 Working principles and application of : Rolling, Drawing, Spinning,
	Forging, Bending, Embossing, Extrusion, Piercing, Squeezing
	4.3 Defects in metal working processes 4.4 Remedial measures
	4.4 Remediai measures
5.	METAL CASTING:
	5.1 Working principles of different methods of casting
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	5.3 Remedial measures
6.	METAL JOINING :
	Introduction and classification of Metal Joining methods     Working principles, application, and limitation of
	Gas Welding
	- Arc Welding
	- Resistance Welding
	6.3 Defects in Welding
	6.4 Remedial Measures
	6.5 Working principles & application of Brazing and Soldering
	6.6 Safety precautions
7.	BASIC MACHINE TOOLS :
	7.1 Introduction to Basic Machine Tools
	7.2 Working principle of each Machine Tool

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