

COURSE TITLE : SPECIAL PURPOSE VEHICLES
COURSE CODE : 5021
COURSE CATEGORY : E
PERIOD/WEEK : 4
PERIOD/SEMESTER : 72
CREDITS : 4

TIME SCHEDULE

MODULE	TOPICS	PERIODS
1	Tractors	17
	Test I	1
2	Earth Moving Machines	17
	Test II	1
3	Construction Vehicles	17
	Test III	1
4	Special Purpose Vehicles	17
	Test IV	1
	Total	72

OBJECTIVES

Upon completion of study of this subject, student should be able to -----

- Understand the working of different components of tractors
 - 1.1.1 List the classification of tractors
 - 1.1.2 Prepare the lay out of wheeled tractor
 - 1.2.1 Explain the power transmission system
 - 1.3.1 Explain the steering system
 - 1.4.1 Mention the accessories of wheeled tractors
 - 1.5.1 Explain the hydraulic control system
 - 1.6.1 Explain the power take off unit

- Understand the construction and working of earth moving machines
 - 2.1.1 List the various earth moving machines
 - 2.2.1 Explain with sketches, the working of Bulldozers
 - 2.3.1 Explain with sketches, the working of Dumpers
 - 2.4.1 Explain with sketches, the working of Loaders
 - 2.5.1 Explain with sketches, the working of Scrapers & Shovels
 - 2.7.1 Mention the power and capacity

- Understand the vehicles used for construction purpose
 - 3.1.1 List the various construction vehicles
 - 3.2.1 Explain the various systems of JCB
 - 3.3.1 Explain the various systems of Road rollers
- Understand the features of special purpose vehicles

