Material Handling Course Code: 1363403

GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)

VI- SEMESTER

Course Title: Material Handling

(Course Code: 1363403)

Diploma Programme in which this course is offered	Semester in which offered
Mechanical (Manufacturing Technology)	Sixth Semester

Module.	Topics	Hours
	Conveyors	
	1.1 Belt Conveyors	5 h
	1.2 Chain Conveyor	
	1.3 Roller Conveyors	
	1.4 Slat Conveyor	
Module 1	1.5 Chute Conveyor	
	1.6 Trolley Conveyor	
	1.7 Power and Free Conveyor	
	1.8 Pipe line Conveyor	
	1.9 Elevating Conveyor	
	Industrial vehicles	4 h
	2.1 Hand truck	7.11
	2.2 Pallet jack	
	2.3 Walkie Stacker	
Module 2	2.4 Pallet Truck	
	2.5 Platform Truck	
	2.6 Tractor Trailer	
	2.7 Forklift Truck	
	Automated vehicles	2 h
	3.1 AGV	
Module 3	3.1.1 Tow AGV	
	3.1.2 Unit load AGV	
	3.1.3 Assembly AGV	
Module 4	Positioning equipments	2 h
	4.1 Pick and Place manipulator	
rioddio .	4.2 Turn table	
	4.3 Turn over table	
	Rack	3 h
	5.1 Pallet racks	
Module 5	5.2 Push back rack	
	5.3 Flow through rack	
	5.4 Drive in drive through Cantilever rack5.5 Sliding rack	
	Hoist and Cranes	2 h
	6.1 Hoist	211
ModuloC	6.2 Monorail	
Module 6		
044.00	6.3 Jib Crane	

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	6.5 Overhead Crane	
	Automatic Identification and Communication equipment	2 h
Module 7	7.1 Bar coding	
	7.2 Optical Character Recognition	
Module 8	Criteria for selection of Material handling equipment	2 h
Module 9	Study of Material handling equipments at Plant	2 h