

Course No. CE 49: Special Course on Introduction to Track Machines
Duration: 1Week Effective Days:06

CM No.	Subjects wise Contents	Periods	Total Periods
49.1	Track Machines & Working Principles:		24
	History of Mechanization, Introduction to Track Machines on IR, their Functions and Output. Important Provisions of IRTMM.	2	
	08- DUO & WST - Main features, Main assemblies, Power Transmission & Working Principles.	2	
	08-275 Unimat 2S 3S & 4S- Main features, Main assemblies, Power Transmission & Working Principles.	2	
	09-32 CSM - Main features, Main assemblies, Power Transmission & Working Principles.	2	
	09-3X Tamping Express - Main features, Main assemblies, Power Transmission & Working Principles.	2	
	MPT UTV,RBMV & MDU - Main features, Main assemblies, Power Transmission & Working Principles.	2	
	DTS, 09-3X Dynamic& BRM - Main features, Main assemblies, Power Transmission & Working Principles.	2	
	BCM and SBCM - Main features, Main assemblies, Power Transmission & Working Principles &Precaution	2	
	RGM- Main features, main units & their functions, Technical Data, Power Transmission, Working Principle & Precautions.	2	
	PQRS - Main features, main units & their functions, Yard Activities, Panels Fabrication, Rake Formation, Base Depot Amenities, Working Principle, Auxiliary Track and Mode of Working	2	
	TRT & T-28 - Main features, main units & their functions, Yard Activities, Modified BRHs, Rake Formation, Working Principle & SRs after relaying.	2	
	Working Principles including Design Mode of working of Tamping Machines	2	
	49.2	Electrical & Electronics:	
Track Machine Electronics, Electronic Components, Transducers & PCBs.		2	
49.3	Hydraulics, Pneumatics & Mechanical:		4
	Hydraulic / Pneumatic components & system, Tamping Unit, Lifting / Lining Unit, Bushes & Bearings.	2	
	Power Transmission: Types, Mechanical & ZF Hydro-dynamic Gear Box and other related Assemblies.	2	
49.4	I.C. Engine:		2
	Working Principle, Construction, & Main Systems.	2	
49.5	Introduction and Valediction	2	2
	Total	34	34