

साप्ताहिक समय सारणी  
Weekly Time Table  
23.01.2023 to 28.01.2023

भारतीय रेलवे रेलपथ मशीन प्रशिक्षण केंद्र  
INDIAN RAILWAYS TRACK MACHINES TRAINING CENTRE  
P.O. SUBEDARGANJ, PRAYAGRAJ- 211015  
E-mail: irtmtc@yahoo.co.in

Course No. CE-50  
Special Course on Electrical & Electronics  
w.e.f. 23.01.2023 to 28.01.2023

दिन तथा दिनांक Day & Date	प्रथम कालखंड 1st Period 09.00 to 09.50	द्वितीय कालखंड 2nd Period 09.55 to 10.45	तृतीय कालखंड 3rd Period 11.00 to 11.50	चतुर्थ कालखंड 4th Period 11.55 to 12.45	पंचम कालखंड 5th Period 13.45 to 14.35	षष्ठम कालखंड 6th Period 14.40 to 15.30	सप्तम कालखंड 7th Period 15.35 to 16.25
सोमवार Monday 23.01.2023	Fundamentals of Electronics, Active & Passive components, Resistor, Capacitor, Inductor; Semiconductors – Properties, Covalent Bonds, Energy Bands, Types, i.e. Intrinsic, extrinsic, P-Type, N-Type. - <b>RD</b>		Relay - Definition, Types, Pin diagrams & Testing. <b>BB</b>		<b>Introduction and Valediction RD</b>		Tutorial BB Tutorial (BB)
मंगलवार Tuesday 24.01.2023	Engine Circuit - Description, Function, Types & Troubleshooting; Z.F.Circuit - Description, Working, Safety Components, Sensors, Faults & Troubleshooting. <b>BB</b>		Power supply PCB EK813SV, EK816SV, EK851SV - Calibration, Testing & Troubleshooting. <b>BB</b>		Diodes – Types, Construction, Working Symbol and Application of Zenor Diode, LED, Photo Diode, Opto coupler; Transistors – Construction, Description of Terminals, NPN & PNP-Transistor. <b>RD</b>		Tutorial RD
बुधवार Wednesday 25.01.2023	Operational Amplifier - Definition, Symbol, Function of terminals, Open loop, Close loop, +ve feed back, -ve feed back, Characteristics, Application as Buffer, Inverter, Non Inverter, Adder, Subtractor, Integrator etc. Operational Amplifier ICs and their Pindigrams. <b>RD</b>		Functional Description of Tamping Unit Control Circuit, Function and Calibration of Depth Selector. <b>BB</b>		Transducers - Definition, Principle, Classification, Types, Tamping Depth Transducer, Lining Transducer, Measuring Transducer, Function and Calibration, & Pendulum, Height Transducer, Hook Transducer, Satellite Transducer, Encoder, Function and Calibration. <b>RD</b>		Tutorial BB
गुरुवार Thursday 26.01.2023	<b>REPUBLIC DAY</b>						
शुक्रवार Friday 27.01.2023	Principle of Lining and Functional Description of Lining Control Circuit, Calibration of Servo Valve. <b>RD</b>		Tamping Unit control PCB EK16V, EK132V, EK176V, EK1AP7 – Calibration, Testing and Troubleshooting. <b>BB</b>		Lining PCB EK349LV, EK335LV, EK2038, EK2173, Overslew PCB EK290LV, Calibration & Troubleshooting <b>RD</b>		Tutorial BB
शनिवार Saturday 28.01.2023	Functional Description of Front Input Circuit, Front Input Potentiometer, Slew, Versine, General Lift etc. <b>BB</b>		<b>Introduction and Valediction RD</b>		OFF		

चाय अवकाश/ Tea Break: 10.45 to 11.00

भोजनावकाश/ Lunch Break: 12.45 to 13.45

Date: 21.01.2023

*BKS*  
Vice Principal  
(BKS)

*VDS*  
(Co-ordinator Time Table)  
(VDS)

[ ]  
Course Incharge CE- 50  
(RD)

साप्ताहिक समय सारणी

Weekly Time Table

23.01.2023 to 28.01.2023

भारतीय रेलवे रेलपथ मशीन प्रशिक्षण केंद्र

INDIAN RAILWAYS TRACK MACHINES TRAINING CENTRE

P.O. SUBDARGANJ, PRAYAGRAJ- 211015

E-mail: trtmte@yahoo.co.in

Course No. CE-26

Initial JE/TMC

w.e.f. 16.08.2022 TO 11.02.2023

दिन तथा दिनांक Day & Date	प्रथम कालखंड 1st Period 09.00 to 09.50	द्वितीय कालखंड 2nd Period 09.55 to 10.45	तृतीय कालखंड 3rd Period 11.00 to 11.50	चतुर्थ कालखंड 4th Period 11.55 to 12.45	पंचम कालखंड 5th Period 13.45 to 14.35	षष्ठम कालखंड 6th Period 14.40 to 15.30	सप्तम कालखंड 7th Period 15.35 to 16.25
सोमवार Monday 23.01.2023	Description of Computer measurement system Electronics Model Room for demonstration and calibration of DRP BB		BCM: RM-76 and RM-80 Working Principle, Precaution during work AP		Maintenance Schedule Maintenance Steps - Symptoms of Troubleshooting of Cummins Engine & Symptoms of Troubleshooting of Deutz Engine VDS		Tutorial (YV)
मंगलवार Tuesday 24.01.2023	Symptoms of Troubleshooting of MWM Engine Symptoms of Troubleshooting of Kirlosker Engine Symptoms of Troubleshooting of QST 30 Engine VDS		Definition, Classification of Hydraulic motor & Working of Vane motor, Gear motor. RK		BCM: RM-80-92U and HOBCM Main features, Main units and their functions, Power Transmission & Technical Data AP		Tutorial (AP)
बुधवार Wednesday 25.01.2023	Maintenance schedules of RM-76, RM-80, Maintenance schedules of FRM-80, FRM-85 & KSC-600. AKY		Working of Axial Piston motor. & Mounting Precautions and Troubleshooting. RK		Super-elevation: Cant deficiency, Cant excess Cant gradient, Equilibrium cant and Negative Super-elevation, Gauge widening and Safe Speed on Curves \ YV		Tutorial (RK)
गुरुवार Thursday 26.01.2023	REPUBLIC DAY						
शुक्रवार Friday 27.01.2023	09-3X Tamping Express and 09-3X Dynamic Main features and Technical Data, Main assemblies and components, Working Principle, Power Transmission Name of PCBs, their functions and Electrical System. VB		Setting of torque wrenches, Tightening torque of different engine assemblies Clearance of moving parts Failure analysis of Cummins Engine VDS		Practical disassembly and assembly of vane motor, demonstration of Axial Piston motor. RK		Tutorial (AKY)
शनिवार Saturday 28.01.2023	Method of data feeding on Tamping Machines Manually Method of data feeding on Tamping Machines by Computer(ALC) AKY		Different Track Parameters and Service tolerances Different Schedules and Standard Dimensions YV		OFF		

चाय अवकाश/ Tea Break: 10.45 to 11.00

भोजनावकाश Lunch Break: 12.45 to 13.45

Date: 21.01.2023

Vice Principal  
(BKS)

(Co-ordinator Time Table)  
(VDS)

Course Incharge CE-26  
(RK)

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E-mail: irtmtc@yahoo.co.in

Course No. CE-26 (A)  
Initial JE/TMC  
w.e.f. 02.01.2023 to 01.07.2023

दिन तथा दिनांक Day & Date	प्रथम कालखंड 1st Period 09.00 to 09.50	द्वितीय कालखंड 2nd Period 09.55 to 10.45	तृतीय कालखंड 3rd Period 11.00 to 11.50	चतुर्थ कालखंड 4th Period 11.55 to 12.45	पंचम कालखंड 5th Period 13.45 to 14.35	षष्ठम कालखंड 6th Period 14.40 to 15.30	सप्तम कालखंड 7th Period 15.35 to 16.25
सोमवार Monday 23.01.2023	Working Principle of 2 Stroke Petrol Engine (Otto cycle). VDS		Functions & Specifications and Ballast profile YV		4 Point lining AKY		Tutorial (AKY)
मंगलवार Tuesday 24.01.2023	3 Point lining AKY		Working Principle of 4 Stroke Petrol Engine (Otto cycle) & Actual Working cycle of 2 Stroke Diesel Engine (Diesel cycle). VDS		Hydraulic Pump - Practical disassembly and assembly of Vane pump RK		Tutorial (YV)
बुधवार Wednesday 25.01.2023	TECH. TOUR ON VPR - 55 at BRE (ROLL NO. 52 TO 110) - VDS TECH. TOUR ON CPOH (ROLL NO. 01 TO 51) - AP						
गुरुवार Thursday 26.01.2023	REPUBLIC DAY						
शुक्रवार Friday 27.01.2023	Hydraulic Pump - Working and Construction of Gear Pump RK		Principle of 4 Point lining & Left over error. AKY		Rail to Rail fastenings and Rail to Sleeper fastenings. & Ballast - Functions & Specifications and Ballast profile YV		Tutorial (VDS)
शनिवार Saturday 28.01.2023	Driving and Running Axle - Function, Parts and Maintenance aspects, setting of crown & tail pinion. VB		Actual Working cycle of 4 Stroke Diesel Engine (Diesel cycle) & Actual Working cycle of 2 Stroke Petrol Engine (Otto cycle) VDS		OFF		

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Date: 21.01.2023

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