

Time Table

Session – IJE IVth Session

Batch – IJE- D 09
 Session Date – 28.07.25 to 23.08.2025
 Examination dates* – 25.08.2025 to 26.08.2025
 (*Subject to change)

Course Coordinators		IJE- D/09		(Trainees-23)		- Sh. Adarsh Soni			
Days/Period	I (09:40-10:40)	II (10:40-11:40)		III (11:55-12:45)	IV (12:45-13:30)		V (14:30-15:45)		VI (16:00-17:00)
Monday	ANS	RCS	Tea Break 11:40 to to 11:55	ADS	ALS	Lunch 13:30 to 14:30	Lab (C&W/WSP/Model park/TL)	Tea Break 15:45 to 16:00	AM
Tuesday	ADS	AY		AK	NCJ		Computer/ Library		RCS
Wednesday	AK	AM		ANS	AM		Library/ Computer		ALS
Thursday	AM	NCJ		MK	ALS		Lab (RMPU/Welding /Diesel)		ANS
Friday	AY	AM		AK	MK		Computer		AH
Saturday	NCJ	AY		AH	ADS				

(N.C.Jaiswal)
Sr.Lecturer & Course Director/STC/CB

ABSTRACT OF MODULES

SL. NO.	Name of Post	Stream	Module No.	Duration in Weeks	Page No
1	Sr. Section Engineer	C&W	MSE-C	52	3 - 4
2	Sr. Section Engineer	Diesel	MSE-D	52	5 - 6
3	Sr. Section Engineer	Workshop	MSE-W	52	7 - 8
4	Junior Engineer (RRB)	C&W	MJR-C	52	9 - 10
5	Junior Engineer (RRB)	Diesel	MJR-D	52	11 - 12
6	Junior Engineer (RRB)	Workshop	MJR-W	52	13 - 14
7	Junior Engineer	C&W	MJI-C	52	15 - 16
8	Junior Engineer	Diesel	MJI-D	52	17 - 18
9	Junior Engineer	Workshop	MJ1-W	52	19 - 20
10	Junior Engineer	C&W	MJP-C	13	21
11	Junior Engineer	Diesel	MJP-D	13	22
12	Junior Engineer	Workshop	MJP-W	13	23

Module Code

1. M Mechanical
2. SE Section Engineer
3. JR JE- RRB
4. JI JE- Intermediate
5. JP JE-Promotional
6. C C&W
7. D Diesel
8. W Workshop

Subject Code

1. M Module
2. R Railway
3. E Engineering
4. T Theory
5. C C&W
6. D Diesel
7. W Workshop

JUNIOR ENGINEER (INTERMEDIATE) (MJI-W)

Session	Paper	Subjects	Marks	Total
IV Theory	I	MWT-03/II	100	100
	II	MWT-04	100	100

Subject & Faculty

SUBJECT NAME WORKSHOP THEORY -03			
SUBJECT CODE MWT-03			
MODULE MJI-W			
24	POH of ICF and LHB Coaches in Workshops	04	AY/ALS
25	Details and Comparison of ICF and FIAT Bogies in Coaches, POH of Bogies and their components, Suspension system in coach bogies, Spring failure: causes and remedies	04	AK/AM
26	Coach Body Repair. Passenger Amenity Items, Bio Toilets & Bio-vacuum Toilet fitment during POH	06	AK

Sl. No	Topic	Duration in Hours	
27	POH of TL & AC system of Coaches (ICF & LHB)	12	AH/AK
28	Corrosion Repair Practice in Coaches & Wagons & Underframe	06	NCJ/ALS
29	Air Brake System of Coaches & Wagons, Twin pipe brake system in wagons, Coupler: Balance draft Gears, POH Procedure & Testing methods	04	ALS/AK
30	POH of different types of Locomotives in Workshops	02	MK
31	Wheel Shop, Flow and Maintenance of Wheels, POH of Loco, Coaches and Wagon Bearings in Shops	08	MK
32	NTXR Examination on Coaches & Wagons, NTXR reject able defects, Local Passing	03	NCJ
33	Role of Stores Department in Workshops, Stock & Non-Stock Items, Stocking, EAC & AAC of Material	03	NCJ
34	Stores drawl procedure	03	NCJ
35	Stocking Application procedure for new stock items, Purchase Cycle	06	NCJ
36	Procurement of Non-Stock Items, Indenting, Requisitions, Technical Suitability, Local Purchase, IREPS, iMMIS, GeM, long term contracts	03	MK/RCS
37	Manufacture activities in Workshops	03	AM
38	Workshop Manufacturing Suspense	02	NCJ
39	Condemnation of Coaches, Wagons and Locomotives, Excluded Fittings	02	MK/AM
40	Condemnation of Ferrous & Non-Ferrous Scrap and its return to stores	03	AM
41	Machinery, Plant & Equipment used in Workshops	06	ADS
42	Painting schedule and types of paints used in C&W, Powder Coating, Vinyl Wrapping, Grit Blasting	06	AM/AY
43	Warranty claims of coaching and wagon items	02	ALS/AK
44	SPART/SPRMV & 140 T Crane maintenance practices	04	ANS/MK
45	Industry 4.0, CNC Machines	04	ADS
46	Workshop Visit	14	Any faculty
47	Revision	03	
	Total	216	

Subject & Faculty

SUBJECT NAME	WORKSHOP THEORY -04	
SUBJECT CODE	MWT-04	
MODULE	MJI-W	
<p>Note: To be trained in any one of the following subjects depending on the trade</p>		
<u>Carriage Shop</u>		
1	Layout, Organization structure, different sections of the shop	AY
2	Salient features and constructional difference of coaches, repair practice at all stages of POH of different types of coaching stock. Modification to coaches for high speed running and precaution taken there to.	ALS
3	Lifting of coaches- dismantling of bogies, wheels etc	AM
4	Repair, Overhaul & testing of bogies frame, bogie components	AM
5	Repair, Overhaul & testing of springs, draft gear, buffing gear	ALS
6	Repair, Overhaul & testing of Air brake components	ALS
7	Repair, Overhaul & Inspection of Wheel & Roller Bearings	AK
8	Repair, Overhaul & testing of water tank	AK
9	Body repairs	AK
10	Carpentry work.	AY
11	Lowering and Levelling of coaches	AY
12	Corrosion repairs	NCJ
13	Modifications done on coaching stock	ALS
14	Provision of safety fittings, provision of amenity fittings.	AK
15	Painting of Coaches	AM
16	NTXR examination	NCJ
17	Train lighting,	AH
18	DEMU/EMU Coach POH Workshop	AM
19	Repair and maintenance of Bio-Toilets, Bio-Vacuum toilets	AK
20	Shop wise staff strength, material requirement, M&P, T&P and targets	AM
21	Attention of accident involved coaches & conversion of coaches	AK
22	POH practices of buffers and couplers	ALS
23	Air conditioning and Train lighting	AK/AH
24	RSP works and modifications	AM
25	IMS cell, Drawing, Safety cell, Planning, Budget, PCO, Rate fixing, Progress, Inspection sections	AY

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