

**Jaipur Engineering College and Research Centre**  
**Department of Civil Engineering**  
**Swayam Video Links**

S. No.	Semester	Code	Subject	Topics	NPTEL Link
1	I/II	1FY3-09/ 2FY3-09	Basic Civil Engineering	Basic construction materials	<a href="https://onlinecourses.nptel.ac.in/noc21_ce10/preview">https://onlinecourses.nptel.ac.in/noc21_ce10/preview</a>
2	III	3CE2-01	Advance Engineering Mathematics -I	Discrete Mathematics	<a href="https://onlinecourses.swayam2.ac.in/cec21_ma06/preview">https://onlinecourses.swayam2.ac.in/cec21_ma06/preview</a>
				Advance Engineering Mathematics -I	<a href="https://onlinecourses.nptel.ac.in/noc21_ma11/preview">https://onlinecourses.nptel.ac.in/noc21_ma11/preview</a>
3		3CE1-02	Technical Communication	Effective Business Communication	<a href="https://onlinecourses.swayam2.ac.in/imb21_mg24/preview">https://onlinecourses.swayam2.ac.in/imb21_mg24/preview</a>
				Communication Technologies in Education	<a href="https://onlinecourses.swayam2.ac.in/cec21_ed10/preview">https://onlinecourses.swayam2.ac.in/cec21_ed10/preview</a>
4		3CE3-04	Engineering Mechanics	Engineering Mechanics - Statics and Dynamics	<a href="https://onlinecourses.nptel.ac.in/noc21_me01/preview">https://onlinecourses.nptel.ac.in/noc21_me01/preview</a>
				Strength Of Materials	<a href="https://onlinecourses.nptel.ac.in/noc20_ce34/preview">https://onlinecourses.nptel.ac.in/noc20_ce34/preview</a>
5		3CE4-05	Surveying	GPS Surveying	<a href="https://onlinecourses.nptel.ac.in/noc20_ce51/preview">https://onlinecourses.nptel.ac.in/noc20_ce51/preview</a>
				Digital Land Surveying And Mapping (DLS&M)	<a href="https://onlinecourses.nptel.ac.in/noc21_ce08/preview">https://onlinecourses.nptel.ac.in/noc21_ce08/preview</a>
6		3CE4-06	Fluid Mechanics	Fluid Mechanics	<a href="https://onlinecourses.nptel.ac.in/noc20_ce59/preview">https://onlinecourses.nptel.ac.in/noc20_ce59/preview</a>
				Fluid Flow Operations	<a href="https://onlinecourses.nptel.ac.in/noc21_ch21/preview">https://onlinecourses.nptel.ac.in/noc21_ch21/preview</a>
7		3CE4-07	Building Materials and Construction	Basic construction materials	<a href="https://onlinecourses.nptel.ac.in/noc21_ce10/preview">https://onlinecourses.nptel.ac.in/noc21_ce10/preview</a>
				Acoustic Materials and Metamaterials	<a href="https://onlinecourses.nptel.ac.in/noc21_me48/preview">https://onlinecourses.nptel.ac.in/noc21_me48/preview</a>
8		3CE4-08	Engineering Geology	Geology and Soil Mechanics	<a href="https://onlinecourses.nptel.ac.in/noc21_ce28/preview">https://onlinecourses.nptel.ac.in/noc21_ce28/preview</a>
				Geomorphology	<a href="https://onlinecourses.nptel.ac.in/noc21_ce29/preview">https://onlinecourses.nptel.ac.in/noc21_ce29/preview</a>

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9	IV	4CE2-01	Advance Engineering Mathematics -II	Discrete Mathematics	<a href="https://onlinecourses.swayam2.ac.in/cec21_ma06/preview">https://onlinecourses.swayam2.ac.in/cec21_ma06/preview</a>
				Advance Engineering Mathematics -I	<a href="https://onlinecourses.nptel.ac.in/noc21_ma11/preview">https://onlinecourses.nptel.ac.in/noc21_ma11/preview</a>
10		4CE1-03	Managerial Economics & Financial Accounting	Introduction to Accounting and Finance for Civil Engineers	<a href="https://onlinecourses.nptel.ac.in/noc21_ce24/preview">https://onlinecourses.nptel.ac.in/noc21_ce24/preview</a>
				Introduction to Civil Engineering Profession	<a href="https://onlinecourses.nptel.ac.in/noc21_ce12/preview">https://onlinecourses.nptel.ac.in/noc21_ce12/preview</a>
11		4CE3-04	Basic Electronics for Civil Engineering Applications	Electronic Waste Management - Issues and Challenges	<a href="https://onlinecourses.nptel.ac.in/noc21_ce03/preview">https://onlinecourses.nptel.ac.in/noc21_ce03/preview</a>
				Basic Electronics	<a href="https://onlinecourses.nptel.ac.in/noc21_ee55/preview">https://onlinecourses.nptel.ac.in/noc21_ee55/preview</a>
12		4CE4-05	Strength of Materials	Mechanics Of Materials	<a href="https://onlinecourses.nptel.ac.in/noc20_ce50/preview">https://onlinecourses.nptel.ac.in/noc20_ce50/preview</a>
				Strength Of Materials	<a href="https://onlinecourses.nptel.ac.in/noc20_ce34/preview">https://onlinecourses.nptel.ac.in/noc20_ce34/preview</a>
13		4CE4-06	Hydraulics Engineering	Hydraulic Engineering	<a href="https://onlinecourses.nptel.ac.in/noc21_ce31/preview">https://onlinecourses.nptel.ac.in/noc21_ce31/preview</a>
				Water Resources and Watershed Management	<a href="https://onlinecourses.swayam2.ac.in/cec21_ge14/preview">https://onlinecourses.swayam2.ac.in/cec21_ge14/preview</a>
14		4CE4-07	Building Planning	Building Cost Estimation Simplified	<a href="https://onlinecourses.swayam2.ac.in/nou21_ce01/preview">https://onlinecourses.swayam2.ac.in/nou21_ce01/preview</a>
				Awareness on "Biosafety Aspects of GE Plants"	<a href="https://onlinecourses.swayam2.ac.in/aic20_ge07/preview">https://onlinecourses.swayam2.ac.in/aic20_ge07/preview</a>
15		4CE4-08	Concrete Technology	Advanced Concrete Technology	<a href="https://onlinecourses.nptel.ac.in/noc20_ce45/preview">https://onlinecourses.nptel.ac.in/noc20_ce45/preview</a>
				Development and Applications of Special Concretes	<a href="https://onlinecourses.nptel.ac.in/noc21_ce19/preview">https://onlinecourses.nptel.ac.in/noc21_ce19/preview</a>

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16	V	5CE3-01	Construction Technology & Equipment's	Construction methods and equipment management	<a href="https://onlinecourses.nptel.ac.in/noc21_ce21/preview">https://onlinecourses.nptel.ac.in/noc21_ce21/preview</a>
				Safety in Construction	<a href="https://onlinecourses.nptel.ac.in/noc21_ce16/preview">https://onlinecourses.nptel.ac.in/noc21_ce16/preview</a>
17		5CE4-02	Structural Analysis-I	Structural analysis-I	<a href="https://onlinecourses.nptel.ac.in/noc20_ce35/preview">https://onlinecourses.nptel.ac.in/noc20_ce35/preview</a>
				Theory of Elasticity	<a href="https://onlinecourses.nptel.ac.in/noc20_ce42/preview">https://onlinecourses.nptel.ac.in/noc20_ce42/preview</a>
18		5CE4-03	Design of Concrete Structures	Design Of Reinforced Concrete Structures	<a href="https://onlinecourses.nptel.ac.in/noc20_ce39/preview">https://onlinecourses.nptel.ac.in/noc20_ce39/preview</a>
				Design of Masonry Structures	<a href="https://onlinecourses.nptel.ac.in/noc20_ce55/preview">https://onlinecourses.nptel.ac.in/noc20_ce55/preview</a>
19		5CE4-04	Geotechnical Engineering	Advanced Foundation Engineering	<a href="https://onlinecourses.nptel.ac.in/noc21_ce33/preview">https://onlinecourses.nptel.ac.in/noc21_ce33/preview</a>
				Advanced Soil Mechanics	<a href="https://onlinecourses.nptel.ac.in/noc21_ce23/preview">https://onlinecourses.nptel.ac.in/noc21_ce23/preview</a>
20		5CE4-05	Water Resource Engineering	Water Resources and Watershed Management	<a href="https://onlinecourses.swayam2.ac.in/cec21_ge14/preview">https://onlinecourses.swayam2.ac.in/cec21_ge14/preview</a>
				Awareness Programme on Solar Water Pumping System	<a href="https://onlinecourses.swayam2.ac.in/nou21_ag06/preview">https://onlinecourses.swayam2.ac.in/nou21_ag06/preview</a>
21	5CE5-11	Air & Noise Pollution and Control	Environmental Pollution and Global issues	<a href="https://onlinecourses.swayam2.ac.in/cec21_ge08/preview">https://onlinecourses.swayam2.ac.in/cec21_ge08/preview</a>	
			Electrochemical Technology in Pollution control	<a href="https://onlinecourses.nptel.ac.in/noc21_ch14/preview">https://onlinecourses.nptel.ac.in/noc21_ch14/preview</a>	
22	5CE5-14	Repair and Rehabilitation of Structures	Maintenance and Repair of Concrete Structures	<a href="https://onlinecourses.nptel.ac.in/noc21_ce13/preview">https://onlinecourses.nptel.ac.in/noc21_ce13/preview</a>	
			Advanced Concrete Technology	<a href="https://onlinecourses.nptel.ac.in/noc20_ce45/preview">https://onlinecourses.nptel.ac.in/noc20_ce45/preview</a>	

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23	VI	6CE3-01	Wind & Seismic Analysis	Earth Sciences For Civil Engineering Part - I & II	<a href="https://onlinecourses.nptel.ac.in/noc20_ce33/preview">https://onlinecourses.nptel.ac.in/noc20_ce33/preview</a>
				Earthquake Resistant Design of Foundations	<a href="https://onlinecourses.nptel.ac.in/noc20_ce52/preview">https://onlinecourses.nptel.ac.in/noc20_ce52/preview</a>
24		6CE3-02	Structural Analysis-II	Structural Dynamics	<a href="https://onlinecourses.nptel.ac.in/noc21_ce32/preview">https://onlinecourses.nptel.ac.in/noc21_ce32/preview</a>
				Matrix Method of Structural Analysis	<a href="https://onlinecourses.nptel.ac.in/noc20_ce41/preview">https://onlinecourses.nptel.ac.in/noc20_ce41/preview</a>
25		6CE3-03	Environmental Engineering	Water Supply Engineering	<a href="https://onlinecourses.nptel.ac.in/noc21_ce30/preview">https://onlinecourses.nptel.ac.in/noc21_ce30/preview</a>
				Water and waste water treatment	<a href="https://onlinecourses.nptel.ac.in/noc21_ce25/preview">https://onlinecourses.nptel.ac.in/noc21_ce25/preview</a>
26		6CE3-04	Design of Steel Structures	Design of steel structures	<a href="https://onlinecourses.nptel.ac.in/noc20_ce37/preview">https://onlinecourses.nptel.ac.in/noc20_ce37/preview</a>
				Theory of Elasticity	<a href="https://onlinecourses.nptel.ac.in/noc20_ce42/preview">https://onlinecourses.nptel.ac.in/noc20_ce42/preview</a>
27		6CE3-05	Estimating & Costing	Construction methods and equipment management	<a href="https://onlinecourses.nptel.ac.in/noc21_ce21/preview">https://onlinecourses.nptel.ac.in/noc21_ce21/preview</a>
				Building Cost Estimation Simplified	<a href="https://onlinecourses.swyam2.ac.in/nou21_ce01/preview">https://onlinecourses.swyam2.ac.in/nou21_ce01/preview</a>
28		6CE5-12	Solid and Hazardous Waste Management	Plastic Waste Management	<a href="https://onlinecourses.nptel.ac.in/noc21_ce04/preview">https://onlinecourses.nptel.ac.in/noc21_ce04/preview</a>
	Solid and hazardous Waste Management			<a href="https://onlinecourses.swyam2.ac.in/cec21_bt08/preview">https://onlinecourses.swyam2.ac.in/cec21_bt08/preview</a>	
29	6CE5-16	Geographic Information System & Remote Sensing	Geographic Information Systems	<a href="https://onlinecourses.nptel.ac.in/noc21_ce09/preview">https://onlinecourses.nptel.ac.in/noc21_ce09/preview</a>	
			Remote Sensing: Principles and Applications	<a href="https://onlinecourses.nptel.ac.in/noc21_ce11/preview">https://onlinecourses.nptel.ac.in/noc21_ce11/preview</a>	

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30	VII	7CE4-01	Transportation Engineering	Mechanical Characterization of Bituminous Materials	<a href="https://onlinecourses.nptel.ac.in/noc21_ce14/preview">https://onlinecourses.nptel.ac.in/noc21_ce14/preview</a>
				Reinforced Concrete Road Bridges	<a href="https://onlinecourses.nptel.ac.in/noc20_ce40/preview">https://onlinecourses.nptel.ac.in/noc20_ce40/preview</a>
31		7AG6-60.2	Environmental Engineering and Disaster Management	Natural Hazards	<a href="https://onlinecourses.nptel.ac.in/noc21_ce17/preview">https://onlinecourses.nptel.ac.in/noc21_ce17/preview</a>
				Environmental Remediation of Contaminated Sites	<a href="https://onlinecourses.nptel.ac.in/noc21_ce36/preview">https://onlinecourses.nptel.ac.in/noc21_ce36/preview</a>

32	VIII	8CE4-01	Project Planning and Construction Management	Principles of Construction Management	<a href="https://onlinecourses.nptel.ac.in/noc21_ce20/preview">https://onlinecourses.nptel.ac.in/noc21_ce20/preview</a>
				Scheduling Techniques in Projects	<a href="https://onlinecourses.nptel.ac.in/noc21_ce22/preview">https://onlinecourses.nptel.ac.in/noc21_ce22/preview</a>
33		8TT6-60.1	Disaster Management	Natural Hazards	<a href="https://onlinecourses.nptel.ac.in/noc21_ce17/preview">https://onlinecourses.nptel.ac.in/noc21_ce17/preview</a>
				Environmental Remediation of	<a href="https://onlinecourses.nptel.ac.in/noc21_ce36/preview">https://onlinecourses.nptel.ac.in/noc21_ce36/preview</a>