



# BIT POLYTECHNIC, BALASORE

(An ISO 9001:2008 Certified Institute)

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Course: **Theory of Structures**

## TEACHING PLAN

Sl. No.	Date	Topic of Class/Lecture & Discussion	
1	Jan I week	Principal considerations for structural analysis Methods of analysis	
2	Jan II week	Introduction to continuous beams Design of continuous beams in RCC And the cross section details	
3	Jan III week Jan IV week	Introduction to Composite Structures Analysis and Design of Composite Structures	
4	Feb I week	Introduction to continuous beams Design of continuous beams in steel	
6	Feb II week	<b>Submission – 1.</b> Analysis and Design of Complex Structures, Analysis and Design of Composite Structures	
7	Feb III week	Compressive Strength of Concrete, Split Tensile Strength, Flexure Strength of Concrete Beams. <b>Assignment-4 Test</b>	
8,9	March I week	Moment distribution method of a Multi Story frame or Residential Building	
10	March II week	Compressive Strength of Concrete, Split Tensile Strength, Flexure Strength of Concrete Beams.	
11	Mar III week	Behavior of structures under wind load, Wind load analysis for a structure	
12	Mar IV week	Behavior of structures under seismic load, Seismic load analysis for a structure analysis, structural	
13	April I week	Exercise practice – On wind load and seismic load analysis for a building, Field Visit	

14	<b>April II week</b>	Introduction to Complex Structures Analysis and Design of Complex Structures <b>Exercise practice</b>	
15,	<b>April III week</b>	Design of complex girders, <b>Exercise practice</b>	
16	<b>April III week</b>	Design of box girders, <b>Exercise practice</b>	

**Course Faculty**

**Head of the Department**