

**Course Expert:** Prof. Kiran Malipatil, KLECET, Belagavi

**Course Code:** 18CV42

**Course Name:** Analysis of Determinate Structures

**Module:** 03 and 04

Lecture Session Details			
Date	Day	Time	Topic
16-03-2020	MON	11:00 to 11:50 AM	Introduction, Moment area method: Derivation, Mohr's theorems
17-03-2020	TUE	12:00 to 12:50 PM	Numerical problems to find slope and deflection for cantilever beams
19-03-2020	THU	02:00 to 02: 50 PM	Numerical problems to find slope and deflection for cantilever beams
20-03-2020	FRI	10:00 to 10:50 AM	Numerical problems to find slope and deflection for simply supported beams
23-03-2020	MON	11:00 to 11:50 AM	Numerical problems to find slope and deflection for simply supported beams
24-03-2020	TUE	12:00 to 12:50 PM	Conjugate beam method: Real beam and conjugate beam, conjugate beam theorems,
26-03-2020	THU	02:00 to 02: 50 PM	Numerical problems to find slope and deflection for cantilever beams
27-03-2020	FRI	10:00 to 10:50 AM	Numerical problems to find slope and deflection for cantilever beams
30-03-2020	MON	11:00 to 11:50 AM	Numerical problems to find slope and deflection for simply supported beams
31-03-2020	TUE	12:00 to 12:50 PM	Numerical problems to find slope and deflection for simply supported beams
02-04-2020	THU	02:00 to 02: 50 PM	Introduction, Principle of virtual displacements, Principle of virtual forces, Strain energy and complimentary energy
03-04-2020	FRI	10:00 to 10:50 AM	Strain energy due to axial force, bending, shear and torsion
07-04-2020	TUE	12:00 to 12:50 PM	Numerical problems to find deflection of determinate beams using total strain energy
09-04-2020	THU	02:00 to 02: 50 PM	Numerical problems to find deflection of determinate beams using total strain energy
16-04-2020	THU	02:00 to 02: 50 PM	Numerical problems to find deflection of determinate Trusses using total strain energy
17-04-2020	FRI	10:00 to 10:50 AM	Numerical problems to find deflection of determinate beams using Castigliano's theorems
20-04-2020	MON	11:00 to 11:50 AM	Numerical problems to find deflection of determinate beams using Castigliano's theorems
21-04-2020	TUE	12:00 to 12:50 PM	Numerical problems to find deflection of Frames using Castigliano's theorems
23-04-2020	THU	02:00 to 02:50 PM	Numerical problems to find deflection of Trusses using Castigliano's theorems
24-04-2020	FRI	10:00 to 10:50 AM	Numerical problems to find deflection using unit load method
27-04-2020	MON	11:00 to 11:50 AM	Numerical problems to find deflection using unit load method