



# CEO 527 – Bridge Engineering

## Lecture Note 1

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### Lecture Plan Layout

Topic	No. of Lectures
<b>Introduction:</b> Construction Materials, Load Transfer Mechanisms, Components of Bridge, Classification of Bridges, Site Selection, Bridge Hydraulics, Traffic Projections, Selection of Bridge Type, Loads on Bridges, Indian and prominent International Standards on Bridge Loading.	3
<b>Arch Bridges, Cable Stayed Bridges, Suspension Bridges and Balanced Cantilever Bridges:</b> Design and Detailing of Masonry Arch Bridges, Forces and Moments on Reinforced Concrete Arch Bridges under Primary and Secondary Loading, Pylons, Cable Stays, Cable Sag, Aero-dynamic Stability of Cable-stayed and Suspension Bridges, Arrangement of Spans and Supports of Balanced Cantilever Bridges.	5
<b>Slab Bridges, Slab Girder Bridges, Pipe Culverts and Box Culverts:</b> Effective Width Method and Pigeud's Coefficient Method, Control of Cracking and Deflection in Bridge Decks, Orthotropic Plate Theory, Courbon's Method, Guyon-Massonet Method and Hendry-Laeger Method Ultimate and	12

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