<table>
<thead>
<tr>
<th>Lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Module #1</strong></td>
</tr>
<tr>
<td><strong>Module #2</strong></td>
</tr>
</tbody>
</table>
| **Module #3** | #3 - Deformation and Strain  
#4 - Axial Loading and Deformation, Thermal Effects |
| **Module #4** | #5 - Axial Indeterminate Members  
#6 - Torsional Loading |
| **Module #5** | #7 - Indeterminate & Thin-walled members in torsion |
| **Module #6** | #8 - Beam Reactions & Applied Loads, Internal Forces  
#9 - Shear & Moment Diagrams & Equations – Beams  
#10 - Shear & Moment Diagrams & Equations – Beams  
#11 - Shear & Moment Diagrams - Continued |
| **Module #7** | #12 - Bending Deformations & Stresses  
#13 - Biaxial Bending, Composite Beams |
| **Module #8** | #14 - Shear in Beams  
#15 - Beam Shear, Beam Design |
| **Module #9** | #16 - Combined Loadings – Pressure Vessels  
#17 - Stress Transformations |
| **Module #10** | #18 - Principal stresses, Mohr’s circle  
#19 - Absolute Max Shear Stress, Stress Variations  
#20 - Plane strain transformation  
#21 - 3D Hooke’s Law, Elastic Curve |
| **Module #11** | #22 - Beam Deflection – Double Integration  
#23 - Beam Deflection – method of superposition |
| **Module #12** | #24 – Stability (Buckling)  
#25 - Euler Buckling of Pin-Pin and other columns |