

STRENGTH OF MATERIALS

LIST OF MONTH WISE AVAILABLE DAYS/PERIODS

Month	July	Aug	Sept.	Oct	TOTAL
Month Wise No. of Academic Days Available	15	21	18	17	71
Month Wise No. of Academic Periods Available					

TOPIC WISE DISTRIBUTION OF PERIODS

Sl.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus	No. of periods actually needed	Expected marks
1	Simple Stress & Strain	10	13	14
2	Thin cylinder and spherical shell under internal pressure	8	08	08
3	Two Dimensional Stress System	10	10	14
4	Bending Moments & Shear force	10	10	22
5	Theory of Simple Bending	10	10	14
6	Combined Direct and Bending Stresses	06	06	14
7	Torsion	06	06	14
	TOTAL	60	63	100

Signature of
Lecturer

Signature of
HOD I/C

Signature of
Academic I/C

Signature of
V.P.

Chapter 2.0

Thin Cylinder and Spherical Shell under internal pressure

Article No.	Name of the Article	Periods Needed	Lect. Sign With Date	Authenticity duly verified by H.O.D.	Sign. Of V.P.
2.1	Definition of hoop and longitudinal stress, strain	01			
2.2	Derivation of hoop stress, longitudinal stress	01			
	Derivation of hoop strain, longitudinal strain & volumetric strain	01			
2.3	Computation of the change in length, diameter and volume	01			
2.4	Simple problems on above	01			
	Problems	01			
	Problems	01			
TOTAL		07			
	<i>Short Questions With Answer and Long Questions With Hint</i>				

Chapter 3.0

Two dimensional stress systems

Article No.	Name of the Article	Periods Needed	Lect. Sign With Date	Authenticity duly verified by H.O.D.	Sign. Of V.P.
3.1	Determination of normal stress, shear stress and resultant stress on oblique plane.	01			
	Cont.	01			
3.2	Location of principal plane and computation of principal stress	01			
	Cont...	01			
3.3	Location of principal plane and computation of principal stress and maximum shear stress using Mohr's circle	01			
	Problems	01			
	Problems	01			
	Problems	01			

Chapter 5.0

Theory of Simple Bending

Article No.	Name of the Article	Periods Needed	Lect. Sign With Date	Authenticity duly verified by H.O.D.	Sign. Of V.P.
5.1	Assumptions in the theory of bending	01			
5.2	Bending equation	01			
	Cont.	01			
	Moment of resistance, Section modulus & neutral axis.	01			
5.3	solve simple problems	01			
	Problems	01			
	Problems	01			
	TOTAL	07			
	<i>Short Questions With Answer and Long Questions With Hint</i>	01			

Chapter 6.0

Combined Direct and Bending Stresses

Article No.	Name of the Article	Periods Needed	Lect. Sign With Date	Authenticity duly verified by H.O.D.	Sign. Of V.P.
6.1	Define column	01			
6.2	Axial load, Eccentric load on column				
6.3	Direct stresses, Bending stresses, Maximum & Minimum stresses	01			
	Numerical problems on above	01			
	Problems	01			
6.4	Buckling load computation using Euler's formula (no derivation) in columns with various end conditions	01			
	TOTAL	05			
	<i>Short Questions With Answer and Long Questions With Hint</i>	01			

