

**SAMANTA CHANDRASEKHAR INSTITUTE
OF TECHNOLOGY & MANAGEMENT**
SEMILIGUDA-764 036, KORAPUT

DEPT. OF MECHANICAL ENGG.....

LESSON PLAN AND PROGRESS REGISTER

(To be maintained by all members of the teaching staff)

SESSION 2022-2023 ODD SEMESTER

NAME En. Usha Kiran
DESIGNATION Head of the department.
DEPT. Mechanical.


SIGNATURE

LESSON PLAN

Degree/Diploma/+2 Science
(Theory/Pract/Lab/Workshop)

Semester 3rd

Branch Mechanical Engineering

Civil Engineering

| Month & Date | Course No. & Title | Brief note of the topics to be covered | No. of Classes Required |
|--------------------|--------------------|--|-------------------------|
| September 15/09/22 | TH-2 Strength | Simple stress and strain | |
| | 1.1 Material | Types of load, stresses & strains. (Axial and tangential) | 1 |
| 16/09 to 17/09 | ↑ | Hooke's law, young's Modulus, bulk modulus, Modulus of Rigidity, Poisson's ratio. | 2 |
| 20/09 to 21/09 | | Derive the relation between three elastic constants. | 2 |
| 22/09 to 23/09 | 1.2 | Principle of Super position along with Problems. | 2 |
| 24/09 to 26/09 | | Stresses in composite section with simple Problems. | 2 |
| 27/09 to 28/09 | 1.3 | Temperature stress, determine the temperature stress in composite bars with simple problem | 2. |
| 29/09 | 1.4 | Strain energy and resilience | 1 |
| 30/09 to 01/10 | | Stresses due to gradually applied load, suddenly applied and Impact load. | 2 |
| October | (2) | Thin cylinder and spherical shell under internal pressure. | |
| 10/10 | 2.1 | Defination of hoop and longitudinal stress, strain. | 1 |
| 11/10 to 12/10 | 2.2 | Derivation of hoop stress, longitudinal stress, hoop strain | 2 |

PROGRESS

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Semester 3rd

Branch Mechanical Engineering

Civil Engineering

| Date | Course No. & Title | No. of Student Present | Mention the Topics covered | If not taken mention the reasons | Remarks/ Signature of HOD/Director |
|--------------------|--------------------|------------------------|--|----------------------------------|------------------------------------|
| Sept | TH-2 Strength | | ① Simple stress and strain. | | |
| 15/09/22 | 1.1 Material | 84 | 1.1. Types of load, stresses and strain (Axial and tangential) | | |
| | ↑ | | Hooke's law, young's Modulus. | | |
| 16/09/22 | | 90 | Bulk Modulus, Modulus of Rigidity, Poisson's Ratio. | | |
| 17/09/22 | | 95 | Derive the relation between three elastic constant | | |
| 19/9/22 | | 96 | Principle of super position along with problem. | | |
| 20/9/22 to 21/9/22 | | 95 | Stresses in composite section with simple Problems. | | |
| | do | | | | |
| 23/9/22 | | 91 | Temperature stress, determine the temperature in composite bar. with simple problem. | | |
| 25/9/22 | | 91 | Strain energy and Resilience. | | |
| 24/9/22 | | 88 | Stress due to gradually applied load | | |
| 26/9/22 | | 94 | Stress due to suddenly applied load | | |
| 27/9/22 | ↓ | 98 | Stress due to Impact Load. | | |

Principal
K. S. SEMILIGI
VISHAPUR

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|--------------|------------------------|--|-------------------------|
| | TH-2 COM | | |
| | (Strength of Material) | | |
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PROGRESS

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Branch Mechanical Engineering

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|----------|------------------------|------------------------|--|--|---------------------------|
| 28/9/22 | TH-2 COM | 95 | Problems on Strain energy and Resilience. | | |
| 29/9/22 | (Strength of Material) | | Doubt Clearing class. | | |
| | ↑ | | ② Thin Cylinder and Spherical Shell under Internal Pressure. | | |
| 10/10/22 | | 82 | 2.1 Definition of Hoops and Logitudinal Stress and strain. | | |
| 11/10/22 | | 85 | 2.2 Derivation of hoops stress, longitudinal stress and Hoop's strain | | |
| 12/10/22 | | 93 | Simple problem on thin cylinder and spherical shell. | | |
| 13/10/22 | do | 89 | Longitudinal Strain and Volumetric strain | | |
| 14/10/22 | | 87 | 2.3 Computation of change in length diameter and Volume with simple problem. | | |
| 15/10/22 | | 82 | Problem Solving class. | | |
| | ↓ | | | | |

Principal
S.M. SEMILIGI
KARAPUT