

Gopal Krishna College Of Engineering And Technology
Goura Hari Vihar, Po: Raniput, Jeypore-764005
Lesson Plan(2025-2026)

Name Of The Subject :Basic Civil Engineering

Name Of The Faculty: **Er. suchitra mahanty**

Semester: 2nd

Semester From: Feb to April

Branch: Civil Engg.

No. Of Week:10th

Week	Class day	Theory/practical
Module I: Basic Civil Engineering (Weeks 1-2)		
1st	1st	Introduction to Civil Engineering, Roles of Civil Engineers
	2nd	Disciplines of Civil Engineering and Infrastructure Development
	3rd	Types of Buildings and Importance
	4th	Introduction to Building Components
2nd	1st	NBC Classification of Buildings
	2nd	Basic Requirements of Buildings
	3rd	Site Selection and Planning of Buildings
	4th	Functional and Structural Design Concepts
Module II: Construction Materials (Weeks 3-4)		
3rd	1st	Foundations – Classification
	2nd	Bearing Capacity of Soil
	3rd	Types of Foundations and Applications
	4th	Identification of Foundation Types
4th	1st	Properties of Construction Materials
	2nd	Stones and Bricks
	3rd	Cement – Types and Properties
	4th	Identification of Materials
Module III: Transportation Engineering (Weeks 5-6)		
5th	1st	Aggregates – Types and Properties
	2nd	Mortar and Concrete – Basics
	3rd	Timber and Steel
	4th	Non-ferrous Metals, Paints, Plastics
6th	1st	Glass, Adhesives, Tiles
	2nd	Composites – Definition, Classification, Applications
	3rd	Transportation – Importance
	4th	Modes of Transportation
Module IV: Water Supply Engineering (Weeks 7-8)		
7th	1st	Highway System and Classification
	2nd	Urban Roads – Requirements
	3rd	Components of Roads
	4th	Flexible vs Rigid Pavement
8th	1st	Sources of Water and Demand
	2nd	Drinking Water Standards
	3rd	Public Water Supply System
	4th	Layout Study of Water Supply
Module V: Irrigation Engineering (Weeks 9-10)		
9th	1st	Water Treatment – Screening, Sedimentation
	2nd	Coagulation and Filtration
	3rd	Disinfection Methods
	4th	Flow Diagram of Treatment Plant
10th	1st	Irrigation – Importance and Types
	2nd	Irrigation Systems and Field Distribution
	3rd	Dams – Types and Functions
	4th	Canal Irrigation System Layout

Reference Book:

□ **Basic Civil engineering, Gopi, S., Pearson Publication**

□ **Basic Civil Engineering, Bhavikatti, S. S., New Age.**