

ACADEMIC SESSION : WINTER- 2024

Discipline : CIVIL ENGG	Semester : 5TH	Name of the Teaching Faculty : DEBASIS LENKA
Subject : Bridge Engineering	No. of days / week class allotted	Semester From date: 01/07/2024 to 08/11/2024
Week	Class Day	Nos. of Weeks per semester : 19 Theory/ Practical Topics
1 ST	1 st	Introduction to bridges Definitions
	2 nd	Introduction to bridges Definitions
2 ND	1 st	Components of a bridge
	2 nd	Components of a bridge
3 RD	1 st	Classification of bridges requirements of an ideal bridge
	2 nd	Classification of bridges
	3 rd	Requirements of an ideal bridge
	4 th	Bridge site investigation, hydrology & planning Selection of bridge site, Alignment
4 TH	1 st	Bridge site investigation, hydrology & planning Selection of bridge site, Alignment
	2 nd	Determination of Flood Discharge
5 TH	1 st	Determination of Flood Discharge
	2 nd	Waterway & economic span
6 TH	1 st	Waterway & economic span
	2 nd	Afflux, clearance & free board Bridge foundation Scour depth minimum depth of foundation
7 TH	1 st	Bridge foundation Scour depth minimum depth of foundation
	2 nd	Types of bridge foundations – spread foundation
8 TH	1 st	Types of bridge foundations – spread foundation
	2 nd	pile foundation- well foundation – sinking of wells, caisson foundation
9 TH	1 st	pile foundation- well foundation – sinking of wells, caisson foundation
	2 nd	pile foundation- well foundation – sinking of wells, caisson foundation

10 TH	1 st	Coffer dams
	2 nd	Coffer dams
11 TH	1 st	Bridge substructure and approaches Types of piers
	2 nd	Bridge substructure and approaches Types of piers
12 th	1 st	Types of abutments
	2 nd	Types of abutments
13 th	1 st	Puja Holidays
	2 nd	
14 th	1 st	Types of wing walls Approaches
	2 nd	Types of wing walls Approaches
15 th	1 st	Culvert & Cause ways Types of culvers – brief description
	2 nd	Culvert & Cause ways Types of culvers – brief description
16 th	1 st	Culvert & Cause ways Types of culvers – brief description
	2 nd	Types of causeways – brief description
17 th	1 st	Types of causeways – brief description
	2 nd	Types of causeways – brief description
18 th	1 st	Doubt clearing sessions
	2 nd	Doubt clearing sessions
19 th	1 st	Previous year question discussion
	2 nd	Previous year question discussion

Prepared By

Approved by

