

Lesson Plan/ Course Break – up
HSMC- CVE201-T- INTRODUCTION TO CIVIL ENGINEERING

Name of the Faculty	Mr. Manik Goyal
Discipline	B.Tech in Civil Engineering
Semester	III (2 nd Year)
Subject	Introduction To Civil Engineering
Lesson Plan Duration	15 Weeks (from September to December2021)
Work Load (Lecture / Practical) per week (in hrs.)	Lectures – 03

Week	Theory	
	Lecture Day	Topic (Including assignment / Test)
1 st	1	Construction materials : Stones -Characteristics of good building stones-common building stones and their uses
	2	Construction materials : Stones -Characteristics of good building stones-common building stones and their uses
	3	Bricks-Characteristics of good bricks-classification of bricks and their uses
2 nd	4	Bricks-Characteristics of good bricks-classification of bricks and their uses
	5	Timber-Classification of Timber and their uses-Cement-Types of cement and their uses
	6	Timber-Classification of Timber and their uses-Cement-Types of cement and their uses
3 rd	7	Components of building: Components of sub structure and their functions-
	8	Components of super structure and their functions -
	9	Types of forces: compression, tension, shear –
4 th	10	Types of forces: compression, tension, shear –
	11	Stress – Strain-Concrete
	12	Ingredients of concrete and its importance in construction
5 th	13	Ingredients of concrete and its importance in construction
	14	Steel- Types of steel and its importance in construction
	15	Survey and Highway Engineering: Definition and classification of surveying – linear and angular measurements -
6 th	16	Survey and Highway Engineering: Definition and classification of surveying – linear and angular measurements -
	17	Definition and classification of surveying – linear and angular measurements
	18	Definition and classification of surveying – linear and angular measurements
7 th	1st Minor Test	
8 th	19	Levelling
	20	Levelling
	21	Modes of transportation – Classification of highways
	22	Modes of transportation – Classification of highways

9 th	23	Classification of pavements – Super elevation
	24	Classification of pavements – Super elevation
10 th	25	Irrigation and Water supply: Definition and classification of irrigation
	26	Irrigation structures – Dams,
	27	Weirs,
11 th	28	Cross drainage works,
	29	Cross drainage works,
	30	Cross drainage works,
12 th	31	Canal drops
	32	Canal drops
	33	Quality of water-Treatment methods
13 th	34	Quality of water-Treatment methods
	35	Geotechnical Engineering: Origin of soil – types of soil
	36	Geotechnical Engineering: Origin of soil – types of soil
14th	2nd Minor test	
15 th	37	Bearing capacity of soil
	38	Types of foundation – shallow and deep
	39	Types of foundation – shallow and deep