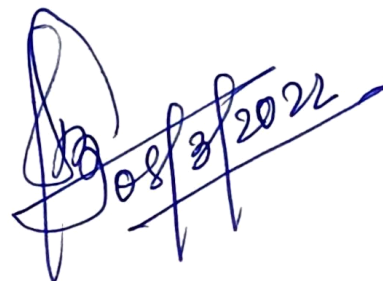



LESSON PLAN FOR SUMMER 2021-22		
CONSTRUCTION MANAGEMENT		6TH SEMESTER (CIVIL)
FACULTY - LOPAMUDRA NAYAK		
DATE	NO. OF CLASSES	TOPICS TO BE COVERED
		Chapter 1 - Introduction To Construction Management
10 . 03 . 2022	1	Aims and objectives of construction management , Functions of construction management.
11 . 03 . 2022	1	The construction team components-owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction.
12 . 03 . 2022	1	Resources for construction management-men,machines,materials,money
16 . 03 . 2022	1	Q & A Discussion
		Chapter 2 - Constructional Planning
17 . 03 . 2022	1	Importance of Construction Planning , Developing work breakdown structure for construction work
23 . 03 . 2022	1	Construction Planning stages-Pre-tender stage, Post-tender stage.
24 . 03 . 2022	1	Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works , Preparation of schedules for labour materials,machinery, finance for small works
25 . 03 . 2022	1	Limitation of Bar charts, Construction scheduling by network techniques-definition of terms ,PERT and CPM techniques,
26 . 03 . 2022	1	advantages and disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample construction works.
30 . 03 . 2022	1	Q & A Discussion
		Chapter 3 - Material and Stores Management
31 . 03 . 2022	1	Classification of Stores-storage of stock.
02 . 04 . 2022	1	Issue of materials-indent , invoice, bin card
06 . 04 . 2022	1	Q & A Discussion
07 . 04 . 2022	1	Monthly Test
		Chapter 4 - Construction Site Management
08 . 04 . 2022	1	Job Lay out-Objectives, Review plans, specifications, Lay out of equipments
09 . 04 . 2022	1	Location of equipment, organizing labour at site , Job lay out for different construction sites
13 . 03 . 2022	1	Principle of storing material at site
16 . 04 . 2022	1	Q & A Discussion
		Chapter 5 - Construction Organisation
20 . 04 . 2022	1	Introduction – Characteristics, Structure, importance, Organization types-line and staff, functions and their characteristics
22 . 04 . 2022	1	Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.
23 . 04 . 2022	1	Leadership-necessity, styles of leadership, role of leader characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare.
27 . 04 . 2022	1	Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal, intergroup, resolving conflicts.
28 . 04 . 2022	1	Q & A Discussion
		Chapter 6 - Construction Labour and Labour Management
29 . 04 . 2022	1	Preparing Labour schedule , Essential steps for optimum labour output
30 . 04 . 2022	1	Labour characteristics , Labour incentives
04 . 05 . 2022	1	Motivation- Classification of motives, different approaches to motivation.
05 . 05 . 2022	1	Q & A Discussion
06 . 05 . 2022	1	Monthly Test
		Chapter 7 - Equipment Management
07 . 05 . 2022	1	Preparing the equipment schedule,Identification of different alternative equipment

11 . 05 . 2022	1	Identification of different alternative equipment , Importance of Owning & operating costs in making decisions for hiring & purchase of equipment
12 . 05 . 2022	1	Inspection and testing of equipment , Equipment maintenance
13 . 05 . 2022	1	Q & A Discussion
		Chapter 8 - Quality Control
14 . 05 . 2022	1	Concept of quality in construction
18 . 05 . 2022	1	Quality Standards- during construction, after construction, destructive & non destructive methods
19 . 05 . 2022	1	Q & A Discussion
		Chapter 9 - Monitoring Progress
20 . 05 . 2022	1	Programme and progress of work , Work study
21 . 05 . 2022	1	Analysis and control of physical and financial progress corrective measures.
25 . 05 . 2022	1	Q & A Discussion
		Chapter 10 - Safety Management in construction
26 . 05 . 2022	1	Importance of safety , causes and effects of accidents in construction works
27 . 05 . 2022	1	Safety measures in worksites for excavation, scaffolding,
28 . 05 . 2022	1	formwork, fabrication and erection, demolition , Development of safety consciousness
01 . 06 . 2022	1	Safety legislation- Workman's compensation act, contract labour act.
02 . 06 . 2022	1	Q & A Discussion
		Chapter 11 - Role of Vulnerability Atlas of India in Constructio Project
03 . 06 . 2022	1	Introduction to Vulnerability Atlas of India, Concepts of natural hazards and disasters and vulnerability profile of India. Definition of disaster related terms , disasters and vulnerability profile of India. Definition of disaster related earthquake, seismic zones, earthquake hazard maps, types of structures and damage classification, effects in housing and resistant measures , Wind / Cyclone hazard and vulnerability, wind speed and pressures, wind hazard and cyclone occurrence maps, storm surveys and cyclone resistant measures
04 . 06 . 2022	1	Flood hazard and vulnerability, Flood hazard and Flood prone areas of the country, General protection of habitants and flood resistant construction , Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards
08 . 06 . 2022	1	Landslides, Tsunamis and Thunderstorm hazards and vulnerability, Landslide & Thunderstorm incidence maps, Measures against Tsunami hazards , Housing vulnerability risk tables and usage of vulnerability atlas of India, Inclusion of vulnerability atlas in Tender documents
09 . 06 . 2022	1	Q & A Discussion
10 . 06 . 2022	1	Monthly Test
Total No. of Classes	48	

 08/3/2022

LESSON PLAN (SUMMER-2022)		
SUBJECT - CADD LAB AND DESIGN & DETAILING PRACTICE -(PRACTICAL-3)		
SEMESTER-6TH SEMESTER CIVIL		
FACULTY- LOPAMUDRA NAYAK		
DATE	NO OF CLASSES	TOPIC TO BE COVER
CHAPTER-1-Structural detailing practice		
16.03.2022	3	Draw the following with necessity details and schedule of bars from supplied sketches
23.03.2022	3	slab ,beam and lintel with chajja as in a simple building (help from section 8&9 of SP34 may be taken) (plate I)
06.04.2022	3	columns ,column-beam connections with &without splicing ,isolated footing ,staircase (help from sec 6,7,10 of SP34 may be taken)(plate 2)
13.04.2022	3	different types of bolt connection ,welded connections (plat3)
20.04.2022	3	details of pile and pile cap and submission
CHAPTER-2- use of STADD Pro Software:		
27.04.2022	3	2D Modelling of structures ,use of structures wizard ,geometry, property ,support loads and combination ,analysis of a continuous beam with more than two span subjected to udl and point load
04.05.2022	3	3D modeling of building structures ,dead load ,live load ,earthquake and wind load analysis design of a 3 storeyed building and preparation of reinforcement drawing and detailing
11.05.2022	3	introduction to STADD foundation and submission
CHAPTER-3- Revit Architecture Software:		
18.05.2022	3	Basics -Modify ,Wall,door ,window, component room ,roof floor ,grid ,lines ,dimension ,section ,level, text ,view
25.05.2022	3	modeling -Ramp ,Railing , Stair ,site -topo surface -parking component ,site component
01.06.2022	3	Align, split,trim,offset,match type ,line work ,paint ,scale ,unit ,3D VIEW
08.06.2022	3	Preparation of approval drawing of a double storied residential building from given specification with its 3D view using above commands and submission
TOTAL	36	
		 HOD/CIVIL OSME NEONIHAR