



**ASIAN SCHOOL OF TECHNOLOGY,
BHUBANESWAR**

DEPARTMENT OF CIVIL ENGINEERING

LESSON PLAN

Discipline: Civil engineering	Semester : 3 rd	No. of periods available: 51	Name of Teaching Faculty: Bisnupriya Jena
Subject: Construction Management	No. of Days/ per week class allotted : 4 periods per week		No. of weeks : 13
Week	Class Day		Topics to be covered
1 st	1 st	1	Objectives, functions of construction management and construction team
	2 nd	1	Resources for constructi on managem ent-men, machines, materials, money
	3 rd	1	Importance of construction planning, developing work breakdown structure
	4 th	1	Construction planning stages-pre-tender stage, post-tender stage
2 nd	5 th	1	Doubt clearing class
	6 th	1	Scheduling by bar charts-preparation of bar charts and limitation of bar charts
	7 th	1	Estimation of time and critical path, application of PERT and CPM
	8 th	1	Doubt clearing class
3 rd	9 th	1	Organization types- line and staff, functions
	10 th	1	Line and staff characteristics
	11 th	1	Principles of organization-meaning

	12 th	1	Significances of terms-control, authority, responsibility, job, Task, Leadership-necessity, style and role
4 th	13 th	1	Principle of effective supervision
	14 th	1	Motivation-classification Of motives
	15 th	1	Different approaches of motives
	16 th	1	Human relations with subordinates, peer, characteristics of group behaviour
5 th	17 th	1	Workshop done for students group behaviour development
	18 th	1	Handling of grievances, absenteeism, labour welfare
	19 th	1	Conflicts in organization
	20 th	1	Morale
6 th	21 st	1	Factors influencing selection, design and layout of temporary facilities
	22 nd	1	Class test-1
	23 rd	1	Services at construction site
	24 th	1	Doubt clearing class
7 th	25 th	1	Principles of storing material at site
	26 th	1	Location of equipment organizing labour at site
	27 th	1	Concept of Quality control
	28 th	1	Concept of quality in construction
8 th	29 th	1	Quality standard-during construction after construction
	30 th	1	Destructive and non destructive method
	31 st	1	Preparing labour schedule, steps for

			optimum labour output
	32 nd	1	Group discussion quality of construction
9 th	33 rd	1	Labour characteristics
	34 th	1	Wages and their payment
	35 th	1	Labour incentives
	36 th	1	Relevant labour laws and case studies
10 th	37 th	1	Group discussion among students labour laws and case studies
	38 th	1	Programme and progress of work Work study Importance of safety Causes and effects of accidents in construction works
	39 th	1	Safety measures in worksites for excavation, scaffolding, formwork
	40	1	Quiz
11 th	41 st	1	Fabrication, erection, demolition
	42 nd	1	Safety legislation- workman's compensation act, contract labour
	43 rd	1	Group discussion about safety legislation
	44 th	1	Preparing equipment schedule
12 th	45 th	1	Identification of different alternative equipment
	46 th	1	Importance of owning and operating costs in making decisions for purchase of equipment
	47 th	1	Group discussion equipment schedule, inspection and testing of equipment
	48 th	1	Job layout for different construction

			sites, equipment maintenance and minor repairs
13 th	49 th	1	Classification of stores-storage of stock
	50 th	1	Issue of materials- indent, in voice, bincard
	51 st	1	Stores accounting process
	52 nd	1	Group discussion on stores accounting process