

Name of Faculty:-	SANDEEP MALIK	
Discipline:-	CIVIL ENGINEERING	
Semester:-	B-Tech (7th)	
Subject:	DISASTER MITIGATION AND MANAGEMENT	
Lesson Plan duration:-	JULY-DEC 2020	
Week	Theory	
	Lecture Day	TOPIC
1	1	Introduction to disaster Control –integrated approach
	2	role of engineer
	3	Hydrological, coastal and marine disaster
	4	Hydrological, coastal and marine disaster
2	5	Atmospheric Disaster
	6	Atmospheric Disaster
3	7	Revision
	8	assignment work
	9	Geological mass movement and land disasters
4	10	Effects of land disaster
	11	Case studies –Damage profile analysis –uttarkashi
	12	Case studies –Damage profile analysis –Bhuj
	13	Case studies –Damage profile analysis –LATUR
5	14	Disaster mitigation
	15	Preventive measures
	16	Problems
	17	assignment work
6	18	Forest related disasters
	19	Wind and water driven disasters
	20	Revision
7	21	assignment work
	21	Mining disasters
	22	Mining disasters
8	23	Major earthquake &causes
	24	Major earthquake &causes
	25	Presentation
9	26	Building codes & other recommended practices- cyclones
	27	landslides –causes &remedies
	28	seismic response of foundation &soil behaviour
	29	seismic response of foundation &soil behaviour
10	30	assignment work
	31	effects of cyclone
	32	Problems
11	33	failure –deformation
	34	Revision
	35	Hazard resistant construction
	36	Introduction

12	37	symmetry eccentric loading
	38	framed structure
	39	soft floors ,simple configurations
13	40	soft floors ,simple configurations
	41	Problems
	42	Revision
14	43	Revision
	44	Revision
	45	Revision
18		PRE UNIVERSITY EXAMINATION

Name of Faculty:-	
Discipline:-	
Semester:-	
Subject:	
Lesson Plan duration:	

Week	Lecture Day
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SANDEEP MALIK
CIVIL ENGINEERING
M.TECH 3rd SEMESTER
ACTM
:- July 2018 to November 2018

Theory
Topic (including assignment/ test
Sub Structure Construction
Box jacking, pipe jacking
under water construction of diaphragm walls and basement.
Numericals
Tunneling techniques
Tunneling techniques
Piling techniques-driving well and caisson-sinking
Piling techniques-driving well and caisson-sinking
cofferdam, cable anchoring and grouting
cofferdam, cable anchoring and grouting
driving diaphragm walls, sheet piles.
Numericals
Seminars
Seminars
Laying operations for built up offshore system
Laying operations for built up offshore system
Numericals
shoring for deep cutting, large reservoir construction
Numericals
Problems
well points, dewatering and stand by plant equipment
well points, dewatering and stand by plant equipment
Problems
Super Structure Construction
Vacuum dewatering of concrete flooring
Concrete paving Technology
Numericals
Tech. of const. for c.c.o in tall buildings of various shapes and varying sections
launching techniques, suspended formwork
erection techniques of tall structures
Numericals
launching tech. for heavy decks- in-situ pre-stressing in high rise structures
aerial transporting ,handling & erecting light weight components
erection of lattice towers and rigging of transmission line structures.

The Critical Path Method
calculations for critical path scheduling
activity float and schedules, presenting project schedules
critical path scheduling for activity-on-node and with Leads.
Problems
Calculations for Scheduling with Leads, Lags and Windows.
scheduling with resource constraints and precedence's
Numericals
advanced scheduling techniques, scheduling with uncertain Duration
monte carlo schedule simulation, crashing and time/cost tradeoffs
scheduling in poorly structured problems, improving the scheduling process.
Equipment for excavating, dredging, trenching, tunneling, drilling
Numericals
Erection Equipment, types of pumps used in construction
equipment for dewatering and grouting, foundation and pile driving equipment
forklifts and related equipment
portable material, conveyors, hauling equipment.
Numericals
Problems