## CVE-302-L Design of Steel Structures - II

Name of the Faculty	:	Mr.Kuldeep Singh
Discipline	:	B.Tech in Civil Engineering
Semester	:	VI (3 <sup>rd</sup> Year)
Subject	:	CVE-302-L, Design of Steel Structures - II
Lesson Plan Duration	:	15 Weeks (from Feb, 2019 to May, 2019)
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Work Load (Lecture / Drawing) per week (in hrs.) : Lectures – 03, Drawing-02

Week	Theory			
Week	Lecture day	Topic (Including Assignment Test)		
	1	Elementary Plastic Analysis and Design		
1 <sup>st</sup>	1	Introduction, Scope of plastic analysis		
1	2	• Ultimate load carrying capacity of tension members		
	3	Ultimate load carrying capacity of compression members		
	4	Flexural members, shape factor, mechanisms		
$2^{nd}$	5	Plastic collapse and analysis		
	6	• Plastic analysis applied to steel beams and simple portal frames and design		
	7	Design of Water Tanks:		
	/	Introduction, permissible stresses		
3 <sup>rd</sup>	8	Design of circular steel tanks		
	9	• Design of Rectangular steel tanks.		
	10	• Prestressed steel tanks including staging		
	11	Design of Steel Stacks:		
4 <sup>th</sup>		• Introduction, permissible stresses, various loads to be considered for the design of steel stacks		
	12	IS specifications for steel stacks		
	13	Foundation specification for steel stacks		
$5^{th}$	14	Design of steel stacks including foundation		
	15	• Design of steel stacks including foundation		
	16	Design of steel stacks including foundation		
6 <sup>th</sup>	17	Guyed stacks - Introduction		
	18	Design of guyed stacks		

	19			
$7^{th}$	20	MINOR TEST I		
21				
	22	Design of guyed stacks		
8 <sup>th</sup>	23	Towers: introduction, types		
	24	Introduction - Transmission line towers microwave towers		
	25	Design loads, classification of towers		
9 <sup>th</sup>	26	Specifications of transmission line		
	27	Design procedure of transmission line tower		
	28	Design procedure of transmission line tower		
$10^{\text{th}}$	29	Design procedure of transmission line tower		
	30	<ul><li>Cold Formed Sections:</li><li>Introduction and brief description of various types of cold formed sections</li></ul>		
	31	Applications of various types of cold formed sections, local buckling		
$11^{th}$	32	• concepts of effective width and effective sections, Elements with stiffeners		
	33	Design of compression		
	34	Design of bending elements		
12 <sup>th</sup>	35	<ul><li>Industrial Buildings:</li><li>Loads, general arrangement and stability</li></ul>		
	36	design considerations for industrial buildings		
	37	Purlins – introduction and specifications		
13 <sup>th</sup>	38	Design of purlins		
	39	Design of purlins		
	40			
$14^{th}$	41	MINOR TEST II		
	42			
+h	43	Design of roof trusses		
15 <sup>th</sup>	44	Industrial building frames		
	45	Bracings and Stepped columns		

## **CVE-304-L IRRIGATION ENGINEERING-I**

Name of the Faculty	:	Mr.Kuldeep Singh
Discipline	:	B.Tech in Civil Engineering
Semester	:	VI (3 <sup>rd</sup> Year)
Subject	:	<b>CVE-304-L IRRIGATION ENGINEERING-I</b>
Lesson Plan Duration	:	15 Weeks (from Feb, 2019 to May, 2019)

Work Load (Lecture / Tutorial) per week (in hrs.) : Lectures – 03, Tutorial-01

Week	Theory			
	Lecture	Topic (Including assignment / Test)		
	Day			
	· · · · ·	Unit-I		
		Introduction: Irrigation-necessity, advantages, disadvantages		
$1^{st}$	2	Impact of irrigation on human environment		
	3	Need and development of irrigation in India, Crops and crop seasons, ideal cropping		
		pattern and high yielding varieties of crops		
	4	Soil-water relationship and irrigation methods: Soil-water relationship		
$2^{nd}$	5	Root zone soil water, infiltration,		
	6	Consumptive use, field capacity, Wilting point, available moisture in soil, GCA, CCA,		
,	7	Intensity of irrigation, delta, base period, Kor depth, core period		
$3^{rd}$	8	Frequency of irrigation, duty of water, relation between delta, duty and base period,		
		irrigation requirement, Flooding methods, border strip method, check basin and furrow		
		method,		
	9	Assessment of irrigation water, sprinkler irrigation, favorable conditions, Sprinkler		
		systems, hydraulics of sprinkler irrigation, planning, design and maintenance of sprinkler		
		systems, drip irrigation-components parts, advantages and limitations, suitability of drip		
		irrigation.		
	10	Unit-II		
$4^{\text{th}}$	10	Canal irrigation,		
4	11	Component of canal distribution system,		
	12	Alignment of channels, Losses in irrigation channels		
$5^{th}$	13	Design discharge,		
5	14	Silt theories and design of alluvial channels		
	15	Comparison of Kennedy's and Lacey's theories,		
6 <sup>th</sup>	16	Canal section and design procedure,		
0	17	Canal section and design procedure,		
7 <sup>th</sup>	18 Garrets and Lacey's diagrams			
Γ		<u> </u>		
$8^{th}$	19	Water logging and land reclamation		
0	20	Water logging-effects		
	20	Causes and measures of prevention, Lining of irrigation channels,		
	21	Types of lining,		
9 <sup>th</sup>	22	Design of lined channel land drainage,		
,	23	Open drains, design considerations, Advantages of tile drains		
	24	Depth of tile drains, Layout of closed drains		
	23	Depui or the drams, Layout or crosed drams		

10 <sup>th</sup>	26	Discharge and spacing of closed drains, diameter of tile drain	
	27	Outlets for tile drains, maintenance of tile drains, purpose of land reclamation and methods	
		of land reclamation.	
		Unit-IV	
	28	River Training	
11 <sup>th</sup>	29	Classification of rivers	
	30	River training and its objectives, Classification of river training works	
	31	Methods of river training	
$12^{\text{th}}$	32	Marginal embankments	
	33	Guidebanks, spurs	
	34	Cutoffs	
13 <sup>th</sup>	35	Bank pitching and launching apron	
	36	Canal outlets, Classification	
14 <sup>th</sup>		2 <sup>nd</sup> Minor test	
15 <sup>th</sup>	37	Requirements of a good outlet,	
	38	8 Design of pipe, APM and open flume outlet,	
	39	Flexibility proportionality, setting and sensitivity of outlet.	

#### **CVE-308-L GEOTECHNOLOGY-II**

Name of the Faculty	:	Mr.Pardeep Kumar
Discipline	:	B.Tech in Civil Engineering
Semester	:	VI (3 <sup>rd</sup> Year)
Subject	:	CVE-308-L GEOTECHNOLOGY-II
Lesson Plan Duration	:	15 Weeks (from Feb, 2019 to May, 2019)

Work Load (Lecture / Tutorial) per week (in hrs.) : Lectures – 03, Tutorial-01

Week	Theory		
	Lecture	Topic (Including assignment / Test)	
	Day		
		Unit-I	
	1	Earth Dams: Introduction, types of sections Earth dam foundations, causes of failure and	
$1^{st}$		criteria for safe design,	
	2	Control of seepage through the embankment, control of seepage through the foundation	
	3	Drainage of foundations, criterion for filter design, Introduction to rock fill dams	
	4	Stability of slopes: Causes of failure, factors of safety	
$2^{nd}$	5	Stability analysis of slopes-total stress analysis	
	6	Effective stress analysis, Stability of infinite slopes types of failures of finite slopes	
	7	Analysis of finite slopes-mass procedure, method of slices, effect of pore pressure	
3 <sup>rd</sup>	8	Fellinius method to locate center of most critical slip circle	
	9	Friction circle method, Taylor's stability number, Slope stability of earth dam during steady	
		seepage, during sudden draw down and during and at the end of construction	
		Unit-II	
	10	Braced Cuts: Depth of unsupported vertical cut,	
$4^{\text{th}}$	11	Sheeting and bracing for deep excavation, Movements associated with sheeting and	
		bracing,	
	12	Modes of failure of braced cuts, pressure distribution behind sheeting.	
th	13	Cofferdams: Introduction, Types of cofferdams,	
$5^{\text{th}}$	14	Design and lateral stability of braced cofferdams	
	15	Design data for Cellular cofferdams,	
th	16	Design data for Cellular cofferdams,	
$6^{th}$	17	Stability analysis of cellular cofferdams on soil and rock	
	18	Inter-lock stresses.	
7 <sup>th</sup>		1 <sup>st</sup> Minor Test	
41-	T	Unit-III	
$8^{\text{th}}$	19	Cantilever Sheet Piles: Purpose of sheet piles	
	20	Cantilever sheet piles	
	21	Depth of embedment in granular soils-rigorous method,	
41-	22	Simplified procedure, cantilever sheet pile	
$9^{\text{th}}$	23	Penetrating clay and limiting height of wall	
	24	Anchored Bulkheads: Methods of design, Free earth support method in cohesionless and	
		ve soils, fixed	
41-	25	Free earth support method in cohesionless and cohesive soils, fixed	
$10^{\text{th}}$	26	Earth support method in cohesionless soils-Blum's equivalent beam method	
	27	Earth support method in cohesionless soils-Blum's equivalent beam method	

		Unit-IV	
	28 Soil Stabilization: Soil improvement		
$11^{\text{th}}$	29	Shallow compaction	
	30	Mechanical treatment, Use of admixtures	
	31	Lime stabilization, cement stabilization,	
$12^{\text{th}}$	32	Lime fly ash stabilization, dynamic compaction and consolidation,	
	33	Bituminous stabilization, chemical stabilization, Pre-compression, lime pile and column,	
		stone column, grouting, reinforced earth.	
	34	Basics of Machine Foundations: Terminology	
13 <sup>th</sup>	35	Characteristics elements of a vibratory systems	
	36	Analysis of vibratory motions of a single degree freedom system-undamped free	
		vibrations, Undamped forced vibrations	
14 <sup>th</sup>	2 <sup>nd</sup> Minor test		
15 <sup>th</sup>	37	Criteria for satisfactory action of a machine foundation	
	38	Degrees of a freedom of a block foundation	
	39	Barken's soil spring constant, Barken's method of a determining natural frequency of a	
		block foundation subjected to vertical oscillations	

# Lesson Plan/ Course Break – up CVE – 310-L Transportation Engineering - I

Name of the Faculty	:	Mr. Harish Kumar
Discipline	:	B.Tech in Civil Engineering
Semester	:	VI (3 <sup>rd</sup> Year)
Subject	:	CVE-310-L, Transportation Engineering-I
Lesson Plan Duration	:	15 Weeks (from Feb, 2019 to May, 2019)
Work Load (Lecture / Tutorial) per week (in hrs.) :		Lectures – 03, Tutorial-01

Week	Theory		
WEEK	Lecture day Topic (Including Assignment Test)		
	1	Transportation and its importance. Different modes of transportation	
$1^{st}$	2	Brief review of history of road development in India and abroad: Roman, Tresagne, Telford and Macadam constructions.	
	3	Road patterns, Classification of roads, Objectives of highway planning	
	4	Planning surveys. Saturation system of planning	
		Highway Plans, Highway Alignment and Surveys:	
$2^{nd}$	5	Main features of 20 years road development plans in India	
	6	Requirements of an ideal highway alignment.	
	7	Factors affecting alignment. Surveys for highway alignment	
3 <sup>rd</sup>	8	Cross section elements: friction, carriageway, formation width, land width, camber, IRC recommended values.	
	9	Types of terrain Design speed. Sight distance, stopping sight distance	
	10	overtaking sight distance, overtaking zones, intermediate sight distance	
4 <sup>th</sup>	11	sight distance at intersections, head light sight distance	
	12	Set back distance. Critical locations for sight distance	
		Design of Horizontal and Vertical Alignment:	
$5^{th}$	13	Effects of centrifugal force	
F	14	Design of super elevation. Providing super elevation in the field	

	15	Radius of circular curves. Extra-widening
	16	Type and length of transition curves. Gradient, types and values
6 <sup>th</sup>	17	Summit curves and valley curves, their design criterion
	18	Grade compensation on curves
	19	
7 <sup>th</sup>	20	MINOR TEST 1
	21	
	22	Traffic Characteristics And Traffic Surveys Road user and vehicular characteristics
8 <sup>th</sup>	23	Traffic studies such as volume, speed and O & D study
	24	Parking and accident studies, Fundamental diagram of traffic flow
	25	Level of service and PCU, Capacity for non-urban roads
9 <sup>th</sup>	26	Causes and preventive measures for road accidents
	27	Traffic Control Devices:
		Traffic control devices: signs, signals, markings and islands
	28	Types of signs. Types of signals.
10 <sup>th</sup>	29	Design of an isolated fixed time signal by IRC method
Γ	30	Intersections at grade and grade separated intersections
	31	Design of a rotary. Types of grade separated intersections
11 <sup>th</sup>	32	Highway Materials: Soil and Aggregates:Subgrade soil evaluation: CBR test
	33	Plate bearing test. Desirable properties of aggregates
	34	Various tests, testing procedures
12 <sup>th</sup>	35	IRC/IS specification for suitability of aggregates
F	36	Proportioning of aggregates for road construction by trial and error and Routhfuch method
12 <sup>th</sup>	37	Bituminous Materials and Bituminous Mixes: Types of bituminous materials: bitumen, tar, cutback and emulsions
13 <sup>th</sup> —	38	Various tests, testing procedures

	39	IRC/IS specifications for suitability of bituminous materials in road construction	
	40		
14 <sup>th</sup>	41	MINOR TEST II	
	42		
	43	Bituminous mix, desirable properties	
15 <sup>th</sup>	44	Marshall's method of mix design	
	45	Basic concept of use of polymers and rubber modified bitumen in bituminous mixes.	

### Lesson Plan CVE-310-P TRANSPORTATION ENGINEERING-I (P)

Name of the Faculty	:		Ms. Manju Godara
Discipline		:	B.Tech in Civil Engineering
Semester	:		VI (3 <sup>rd</sup> Year)
Subject	:		CVE-310-P Transportation Engineering-I (P)
Lesson Plan Duration	:		15 Weeks (from Feb, 2019 to May, 2019)
Work Load (Lecture / Practical) per week (in hrs.) :			Practical – 02

	Practical					
Week	Lecture day	Topic (Including Assignment Test)				
1 <sup>st</sup>	1	Tests on Road Aggregates – Introduction of – MORTH, IS: 2386 Part IV, IS: 383 – 1970 (Group 1)				
1	2	Tests on Road Aggregates – Introduction of – MORTH, IS: 2386 Part IV, IS: 383 – 1970 (Group 2)				
$2^{nd}$	3	Exp. 1 - Aggregate Impact Test (Group 1)				
2	4	Exp. 1 - Aggregate Impact Test (Group 2)				
3 <sup>rd</sup>	5	Exp. 2 - Los-Angeles Abrasion Test on Aggregates (Group 1)				
3	6	Exp. 2 - Los-Angeles Abrasion Test on Aggregates (Group 2)				
4 <sup>th</sup>	7	Exp. 3 - Dorry's Abrasion Test on Aggregates (Group 1)				
4	8	Exp. 3 - Dorry's Abrasion Test on Aggregates (Group 2)				
5 <sup>th</sup>	9	Exp. 4 - Deval Attrition Test on Aggregates (Group 1)				
5	10	Exp. 4 - Deval Attrition Test on Aggregates (Group 2)				
6 <sup>th</sup>	11	Tests on Bituminous Material – Introduction of – IS:73 – 2006, IS: 1202 – 1978, IS:1203 – 1978, IS: 1205 – 1978, IS: 1208 – 1978, IS: 1209 – 1978 (Group 1)				
0	12	Tests on Bituminous Material – Introduction of – IS:73 – 2006, IS: 1202 – 1978, IS:1203 – 1978, IS: 1205 – 1978, IS: 1208 – 1978, IS: 1209 – 1978 (Group 2)				
7 <sup>th</sup>	13	MINOR TEST I				
/	14					
8 <sup>th</sup>	15	VIVA – VOCE Group - 1				
0	16	VIVA – VOCE Group - 2				
9 <sup>th</sup>	17	Exp. 5 - Penetration Test on Bitumen (Group 1)				
9	18	Exp. 5 - Penetration Test on Bitumen.(Group 2)				

10 <sup>th</sup>	19	Exp. 6 - Ductility Test on Bitumen (Group 1)
	20	Exp. 6 - Ductility Test on Bitumen(Group 2)
11 <sup>th</sup>	21	Exp. 7 - Viscosity Test on Bituminous Material (Group 1)
11	22	Exp. 7 - Viscosity Test on Bituminous Material(Group 2)
12 <sup>th</sup>	23	Exp. 8 - Softening Point Test on Bitumen (Group 1)
12	24	Exp. 8 - Softening Point Test on Bitumen (Group 2)
13 <sup>th</sup>	25	Exp. 9 - Flash and Fire Point Test on Bitumen (Group 1)
15	26	Exp. 9 - Flash and Fire Point Test on Bitumen (Group 2)
14 <sup>th</sup>	27	MINOR TEST II
14	28	MINOR IEST II
15 <sup>th</sup>	29	VIVA – VOCE Group - 1
	30	VIVA – VOCE Group - 2

## **CVE-312-L WATER SUPPLY & TREATMENT**

Name of the Faculty	:	Mr.Kamaldeep Singh
Discipline	:	B.Tech in Civil Engineering
Semester	:	VI (3 <sup>rd</sup> Year)
Subject	:	CVE-312-L Water Supply & Treatment
Lesson Plan Duration	:	15 Weeks (from Feb, 2019 to May, 2019)

Work Load (Lecture / Tutorial) per week (in hrs.) : Lectures – 03, Tutorial-01

Week	Theory			
	Lecture	Lecture Topic (Including assignment / Test)		
	Day			
		Unit-I	·	
	1	Water Quantity: Introduction		
$1^{st}$	2	Importance and necessity of water supply scheme		
	3	Water demands and its variations, Estimation of total quantity of water requirement		
	4	Population forecasting		
$2^{nd}$	5	Quality and quantity of surface and ground water sources		
	6	Quality and quantity of surface and ground water sources		
	7	Selection of a source of water supply		
$3^{\rm rd}$	8	Selection of a source of water supply		
	9	Types of intakes		
		Unit-II		
	10	Water Quality: Introduction		
$4^{th}$	11	Impurities in water and their sanitary significance		
	12	Impurities in water and their sanitary significance		
	13	Impurities in water and their sanitary significance		
$5^{\text{th}}$	14	Physical analysis of water		
	15	Physical analysis of water, Chemical analysis of water		
	16	Bacteriological analysis of water		
$6^{th}$	17	Bacteriological analysis of water		
	18	Water quality standards		
7 <sup>th</sup>	1 <sup>st</sup> Minor Test			
4		Unit-III		
$8^{\text{th}}$	19	Water Treatment: Introduction		
	20	Objectives, Treatment processes and their sequence in conventional treatment plant		
	21	Sedimentation – plain and aided with coagulation		
th	22	Types, features and design aspects		
$9^{\text{th}}$	23	Mixing basins and Flocculation units		
	24	Filtration – mechanism involved, Types of filters		
	25	Slow and rapid sand filtration units (features and design aspects)		
$10^{\text{th}}$	26	Slow and rapid sand filtration units (features and design aspects)		
	27	Disinfection principles and aeration		
		Unit-IV		
, th	28	Water Distribution: Introduction		
$11^{\text{th}}$	29	Distribution system		
	30	Gravity system, Pumping System		

	31	Dual system,	
$12^{\text{th}}$	32	Layout of Distribution System	
	33	Dead End System, Grid Iron System	
	34	Ring System	
13 <sup>th</sup>	35	Radial System, their merits and demerits	
	36	Radial System, their merits and demerits	
14 <sup>th</sup>		2 <sup>nd</sup> Minor test	
$15^{\text{th}}$	37	Distribution Reservoir-functions & determination of storage capacity	
	38	Distribution Reservoir-functions & determination of storage capacity	
	39	Distribution Reservoir-functions & determination of storage capacity	

#### CVE-312-P ENVIRONMENTAL ENGINEERING-I (P)

Name of the Faculty	:		Mr. Kamaldeep Singh
Discipline		:	B.Tech in Civil Engineering
Semester	:		VI (3 <sup>rd</sup> Year)
Subject	:		CVE-312-P Environmental Engineering-I (P)
Lesson Plan Duration	:		15 Weeks (from Feb, 2019 to May, 2019)

Work Load (Lecture / Practical) per week (in hrs.) : Practical – 02

		Practical	
Week	Lecture day	Topic (Including Assignment Test)	
1 <sup>st</sup>	1	Experiment 1 –Determine the pH value of a given sample of waste water (Group 1)	
1	2	Experiment 1 –Determine the pH value of a given sample of waste water(Group 2)	
$2^{nd}$	3	Experiment 2 – To Determine the turbidity in given waste water sample. (Group 1)	
2	4	Experiment 2 - To Determine the turbidity in given waste water sample. (Group 2)	
3 <sup>rd</sup>	5	Experiment 3 - Determine the acidity of given sample of waste water (Group 1)	
5	6	Experiment 3 - Determine the acidity of given sample of waste water (Group 2)	
4 <sup>th</sup>	7	Experiment 4 - Determine the alkalinity of given sample of waste water (Group 1)	
4	8	Experiment 4 - Determine the alkalinity of given sample of waste water (Group 2)	
5 <sup>th</sup>	9	Experiment 5 - Determine temporary hardness in a given water sample(Group 1)	
5	10	Experiment 5 - Determine temporary hardness in a given water sample (Group 2)	
6 <sup>th</sup>	11	Experiment 5 - Determine permanent hardness in a given water sample (Group 1)	
0	12	Experiment 5 - Determine permanent hardness in a given water sample (Group 2)	
7 <sup>th</sup>	13	MINOR TEST I	
/	14		
8 <sup>th</sup>	15	VIVA – VOCE Group - 1	
0	16	VIVA – VOCE Group - 2	
9 <sup>th</sup>	17	Experiment 6 – Determine total suspended, suspended, in a sewage sample (Group 1)	
9	18	Experiment 6 - Determine total suspended, suspended, in a sewage sample (Group 2)	
10 <sup>th</sup>	19	Experiment 6 -To determine dissolved settable solids in a sewage sample (Group 1)	
10	20	Experiment 6 - To determine dissolved settable solids in a sewage sample (Group 2)	
11 <sup>th</sup>	21	Experiment 8 – To Determine chlorine dose required for given water sample (Group 1)	

	22	Experiment 8 - To Determine chlorine dose required for given water sample (Group 2)
12 <sup>th</sup>	23	Experiment 9 - Determine the chloride concentration in a given sample of waste water (G1)
12	24	Experiment 9 - Determine the chloride concentration in a given sample of waste water (G2)
13 <sup>th</sup>	25	Experiment 10 - Determine the Sulphate concentration in given water sample (Group 1)
15	26	Experiment 10 - Determine the Sulphate concentration in given water sample (Group 2)
$14^{\text{th}}$	27	MINOR TEST II
14	28	
15 <sup>th</sup>	29	VIVA – VOCE Group - 1
	30	VIVA – VOCE Group - 2

## **CVE-314-P COMPUTER APPLICATIONS**

Name of the Faculty	:	Mr.Pardeep Kumar
Discipline	:	B.Tech in Civil Engineering
Semester	:	VI (3 <sup>rd</sup> Year)
Subject	:	<b>CVE-314-P</b> Computer Applications
Lesson Plan Duration	:	15 Weeks (from Feb, 2019 to May, 2019)

Work Load (Practical) per week (in hrs.) :

Practical-02

Week	Practical					
	Торіс					
	Computation of roots of a polynomial using.					
$1^{st}$	Bisection method, (b) Newton-Raphson method					
	Computation of roots of a polynomial using.					
$2^{nd}$	Bisection method, (b) Newton-Raphson method					
,	Solution of linear simultaneous equations using Gauss Elimination/Gauss Jordan /Triangulation					
3 <sup>rd</sup>	factorization method					
th	Solution of linear simultaneous equations using Gauss Elimination / Gauss Jordan / Triangulation					
$4^{\text{th}}$	factorization method.					
th	Solution of system of non-linear equation using fixed point / Newton Raphson / modified Newton-					
$5^{\text{th}}$	Raphson method.					
-th	Solution of system of non-linear equation using fixed point / Newton Raphson / modified Newton-					
6 <sup>th</sup>	Raphson method.					
7 <sup>th</sup>	Minor Test-1					
8 <sup>th</sup>	Analysis of multi-span Beam and frames using stiffness matrix method.					
9 <sup>th</sup>	Analysis of multi-span Beam and frames using stiffness matrix method.					
$10^{\text{th}}$	Analysis of Plane frame and space Frame using automated software.					
	Analysis of Plane frame and space Frame using automated software					
$11^{\text{th}}$						
	Analysis of a three storeyed and ten storeyed building using automated software					
$12^{\text{th}}$						
	Analysis of a three storeyed and ten storeyed building using automated software.					
13 <sup>th</sup>						
14 <sup>th</sup>	Minor Test-II					
$15^{\text{th}}$	Introduction to Auto CAD.					