

Department of Civil Engineering						
5th Semester						
Theory No:		2				
Subject:		Structural Design - I (CET 501)				
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
1	W 1	15-07-19	20-07-19	5	1.1 - Objectives of design and detailing .state the different methods of design of concrete structures	
2	W 2	22-07-19	27-07-19	5	1.2 - Introduction to reinforced concrete,R.C sections their behaviour, grades of concrete and steel.Permissible stresses,assumptionin W.S.M	
3	W 3	29-07-19	03-08-19	5	1.3 - Basic concept of under reinforced, over reinforced and balanced setion, flexural design & analysis of singly and doubly reinforced rectangular sections.2.1 - Definition.types of limit states, partial safety factors for materials strength,characteristic strength characteristic load design loading on structure as per I S	

<b>5th Semester</b>						
<b>Theory No: 2</b>						
<b>Subject: Structural Design - I (CET 501)</b>						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
4	W 4	05-08-19	10-08-19	5	2.2-I.S specification regarding spacing of reinforcement in slab,cover to reinforcement in slab ,beam column & footin ,minimum reinforcement in slab beam column lapping anchorage ,effective span for beam and slab. 3.1- Limit state of collapse (flexure) , Assumptions ,stress-strain relationship for concrete and steel,neutral axis,stress block diagram and strain diagram for singly reinforced section	
5	W 5	12-08-19	17-08-19	5	3.2 - Concept of under reinforced ,over reinforced and limiting section , neutral axis co-efficient,limiting value of miment of	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	5	3.3- Numerical problems on determining design constants, moment of resistance and area of steel for rectangular sections.4.1- General features. necessity of providing doubly reinforced section.	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	5	Numerical problems on finding moment of resistance and design of beam sections.5.1- Nominal shear stress in RC section , design shear strength of concrete , maximum shear stress, design of shear reinforcement, minimum shear reinforcement,forms of shear reinforcement	
8	W 8	02-09-19	07-09-19	5	5.2 - Bond and types of bond, bond stress, check for bond stress, development length in tension and compression, anchorage value for hooks 900 bend and 450 bend standards lapping of bars, check for development length.5.3 - Numerical problems on deciding whether shear reinforcement is required or not, check for adequacy of the section in shear. Design of shear reinforcement; Minimum shear reinforcement in beams; Determination of Development length required for tension reinforcement of cantilevers beam and slab, check for development length.6.1 General features, advantages, effective width of flange as per IS: 456-2000 code provisions	2nd and 3rd Sept'19 are
9	W 9	09-09-19	14-09-19	5	6.2 Analysis of singly reinforced T-Beam, strain diagram & stress diagram, depth of neutral axis, moment of resistance of T-beam section with neutral axis lying within the flange. 6.3 Design of T-beam for moment and shear for neutral axis within or up to flange bottom.	9th and 14th Sept'19 are holiday

5th Semester						
Theory No: 2						
Subject: Structural Design - I (CET 501)						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
10	W 10	16-09-19	21-09-19	5	6.4 Simple numerical problems on deciding effective flange width. (Problems only on finding moment of resistance of T-beam section when N.A. lies within or up to the bottom of flange shall be asked in written examination)7.1 Design of simply supported one-way slabs for flexure check for deflection control and shear.	
11	W 11	23-09-19	28-09-19	5	7.2 Design of one-way cantilever slabs and cantilevers chajjas for flexure check for deflection control and check for development length and shear. 7.3 Design of two-way simply supported slabs for flexure with corner free to lift.	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	5	7.4 Design of dog-legged staircase and cantilever staircase.	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	5	7.5 Simple numerical problems on design of one-way simply supported slabs cantilever slab, two-way simply supported slab, dog-legged staircase and cantilever staircase.8.1 Assumptions in limit state of collapse- compression	
14	W 14	21-10-19	26-10-19	5	8.2 Definition and classification of columns, effective length of column. Specification for minimum reinforcement; cover, maximum reinforcement, number of bars in rectangular, square and circular sections, diameter and spacing of lateral ties. 8.3 Analysis and design of axially loaded short, square, rectangular and circular columns with lateral ties only; check for short column and check for minimum eccentricity may be applied.	
15	W 15	28-10-19	31-10-19	5	8.4 Types of footing, Design of isolated square column footing for flexure and shear, Design of Strip footing for walls. 8.5 Simple numerical problems on axially loaded short columns, isolated footings and wall footings	
<b>Total</b>	<b>15</b>			<b>75</b>		

Department of Civil Engineering						
5th Semester						
Theory No:		4				
Subject:		Surveying II (CET-503)				
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
1	W 1	15-07-19	20-07-19	4	1.1 Purpose of leveling 1.2 Definition of terms used in leveling – concepts of level surface, Horizontal surface, vertical surface, datum, R. L., B.M. 1.3 Description of essential features and uses of different types of leveling instruments 1.4 Concepts of line of collimation, axis of bubble tube, axis of telescope, Vertical axis 1.5 Levelling staff – types, features and use	
2	W 2	22-07-19	27-07-19	4	1.6 Temporary adjustments of level, taking reading with level 1.7 Concept of bench mark, BS, IS, FS, CP, HI 1.8 Principles of leveling – Simple leveling, Differential leveling 1.9 Field data entry – level Book – height of collimation method and Rise & Fall method, comparison, Numerical problems on reduction of levels applying both methods, Arithmetic checks 1.10 Different types of leveling, uses and methods – Fly leveling, check leveling, Profile leveling – longitudinal sections and cross-sections 1.11 Plotting of profiles	
3	W 3	29-07-19	03-08-19	4	1.12 Effects of curvature and refraction, numerical problems on application of correction 1.13 Reciprocal leveling – principles, methods, numerical problems, precise leveling 1.14 Difficulties in leveling, errors in leveling and precautions 1.15 Sensitiveness of bubble tube, determination of sensitiveness	

5th Semester						
Theory No: 4						
Subject: Surveying II (CET-503)						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
4	W 4	05-08-19	10-08-19	4	1.16 Permanent adjustments of different types of levels. 1.17 Setting grades and stakes, setting out grades of sewers and related problems 2.1 Definitions of related terms, concepts of contours, characteristics of contours 2.2 Methods of contouring, plotting contour maps	
5	W 5	12-08-19	17-08-19	4	2.3 Interpretation of contour maps, toposheets. 2.4 Use of contour maps on civil engineering projects – drawing cross-sections from contour maps, locating proposal routes of roads / railway / canal on a contour map, computation of volume of earthwork from contour map for simple structure	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	4	3.1 Purpose, definition of terms 3.2 Description of features, component parts of a transit theodolite 3.3 Fundamental axes of a theodolite, concept of vernier, reading a vernier 3.4 Temporary adjustment of theodolite 3.5 Concept of transiting – swinging, faceleft, face right, changing face 3.6 Measurement of horizontal angles with theodolite by repetition and reiteration method	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	4	3.7 Measurement of vertical angles with theodolite 3.8 Determination of magnetic bearings with theodolite 3.9 Measurement of deflection angle, direct angle, setting out angles, prolonging a straight line with theodolite 3.10 Errors in Theodolite observations	
8	W 8	02-09-19	07-09-19	4	4.1 Methods of traversing with theodolite – inclined angle method, deflection angle method, bearing method 4.2 Plotting the traverse by coordinate method 4.3 Checks for open and closed traverse 4.4 Traverse computation – consecutive coordinates, latitude and departure, Gale's traverse table, Numerical problems on omitted measurement of lengths & bearings 4.5 Closing error – adjustment of angular errors, adjustment of bearings, numerical problems	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	4	4.6 Balancing of traverse – Bowditch's method, transit method, graphical method, axis method 4.7 Calculation of area of closed traverse 5.1 Principles, stadia constants determination 5.2 Stadia tacheometry with staff held vertical and with line of collimation horizontal or inclined, numerical problems	9th and 14th Sept'19 are holiday

<b>5th Semester</b>						
<b>Theory No: 4</b>						
<b>Subject: Surveying II (CET-503)</b>						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
10	W 10	16-09-19	21-09-19	4	5.3 Elevations and distances of staff stations – numerical problems 6.1 compound, reverse and transition curve, Purpose & use of different types of curves in field 6.2 Elements of circular curves, numerical problems	
11	W 11	23-09-19	28-09-19	4	6.3 Preparation of curve table for setting out 6.4 Setting out of circular curve by chain and tape and by instrument angular methods (i) offsets from long chord, (ii) successive bisection of arc, (iii) offsets from tangents, (iv) offsets from chord produced, (v) Rankine's method of tangent angles 6.5 Obstacles in curve ranging – point of intersection inaccessible 7.1 Methods of computations, formulae for different types of cross sections	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	4	7.2 Calculation of volumes by prismoidal formula and trapezoidal formula, Prismoidal corrections, curvature correction for volumes. 7.3 Measurement of volumes from spot levels, Contours and calculation of reservoir capacities. 7.4 Mass haul diagram, construction & characteristics, use of mass diagram. 8.1 Principles, features and use of (i) Micro-optic theodolite, digital theodolite,	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	4	8.2 Working principles of a Total Station (Set up and use of total station to measure angles, distances of points under survey from total station and the co-ordinates (X,Y & Z or northing, easting, and elevation) of surveyed points relative to Total Station position using trigonometry and triangulation	
14	W 14	21-10-19	26-10-19	4	Revision	
15	W 15	28-10-19	31-10-19	4	Revision	
<b>Total</b>	<b>15</b>			<b>60</b>		

Department of Civil Engineering						
5th Semester						
Theory No:		5				
Subject:		Concrete Technology (CET-504)				
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
1	W 1	15-07-19	20-07-19	4	1.1 Grades of concrete. 1.2 Advantages and disadvantages of concrete. 2.1 Composition, hydration of cement, water cement ratio and compressive strength.	
2	W 2	22-07-19	27-07-19	4	fineness of cement, setting time, soundness, types of cement. 3.1 Classification and characteristics of aggregate.	
3	W 3	29-07-19	03-08-19	4	deleterious substances in aggregates, fineness modulus, grading of aggregate.	

5th Semester						
Theory No: 5						
Subject: Concrete Technology (CET-504)						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
4	W 4	05-08-19	10-08-19	4	I.S.383 4.1 Quality of water for mixing and curing. 5.1 Important functions, classification of admixtures, I.S 9103, accelerating admixtures.	
5	W 5	12-08-19	17-08-19	4	admixtures, water reducing admixtures, air containing admixtures. Concept of fresh concrete, workability,	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	4	slump test, compacting factor test, V-tee consistency test and flow test, requirement of workability, I.S.1199. 7.1 Cube and cylinder compressive strengths, flexural strength of concrete.	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	4	stress-strain and elasticity, phenomena of creep and shrinkage, permeability, durability of concrete,	
8	W 8	02-09-19	07-09-19	4	sulphate, chloride and acid attack on concrete, efflorescence. 8.1 a) Introduction	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	4	b) Data or input required for mix design. c) Nominal mix concrete & design mix concrete.	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	4	d) Basic consideration for concrete mix design, Methods of proportioning concrete mix – I.S Code method of mix design(I.S.10262) 9.1 Batching of materials, mixing of concrete materials, transportation, placing of concrete, compaction of concrete, compaction methods, vibrators, curing	
11	W 11	23-09-19	28-09-19	4	when to start and time of curing, formwork-requirements and types, stripping of forms. 10.1 Quality control of Concrete as per I.S.456, Factors causing the variations in the quality of concrete, field quality control, Sampling & acceptance criteria as per Clause 15 & 16 of IS:456. 10.2 Mixing, Transporting, Placing & curing requirements of Concrete as per I.S.456	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	4	10.3 Inspection and Testing as per Clause 17 of IS:456. 10.4 Durability requirements of Concrete as per I.S:456. 11.1 Introduction to ready mix concrete, high performance concrete	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	4	fume concrete, shotcrete concrete or gunniting 12.1 Types of deterioration,	
14	W 14	21-10-19	26-10-19	4	prevention of concrete deterioration, corrosion of reinforcement, effects and prevention. 13.1 Symptom, cause and prevention and remedy of defects during construction, cracking of concrete due to different reasons.	
15	W 15	28-10-19	31-10-19	4	repair of cracks for different purposes, selection of techniques, polymer based repairs, common types of repairs. And Revision	
<b>Total</b>	<b>15</b>			<b>60</b>		



Department of Civil Engineering						
5th Semester						
Theory No:		3				
Subject:		Highway Engineering (CET-502)				
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
1	W 1	15-07-19	20-07-19	5	1.1 Importance of Highway transportation: importance organizations like Indian roads congress, Ministry of Surface Transport, Central Road Research Institute. 1.2 Functions of Indian Roads Congress 1.3 IRC classification of roads 1.4 Organisation of state highway department 2.1 Glossary of terms used in geometric and their importance, right of way, formation width, road margin, road shoulder, carriage way, side slopes, kerbs, formation level, camber and gradient.	
2	W 2	22-07-19	27-07-19	5	2.2 Design and average running speed, stopping and passing sight distance	
3	W 3	29-07-19	03-08-19	5	2.3 Necessity of curves, horizontal and vertical curves including transition curves and super elevation, Methods of providing super – elevation 3.1 Different types of road materials in use : soil, aggregates, binders 3.2 Function of soil as highway subgrade 3.3 California Bearing Ratio : methods of finding CBR valued in the laboratory and at site and their significance	

5th Semester						
Theory No: 3						
Subject: Highway Engineering (CET-502)						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
4	W 4	05-08-19	10-08-19	5	3.4 Testing aggregates : Abrasion test, impact test, crushing strength test, water absorption test & soundness test 3.5 Aggregates : Availability of road aggregates in India, Requirements of road aggregates as per IS specifications 3.6 Binders : common binders : cement, bitumen and Tar, propertied as per IS specifications, penetration and viscosity test of bitumen, procedure and a significance of cut back bitumen and bituminous emulsion and their uses.	
5	W 5	12-08-19	17-08-19	5	4.1 Road Pavement : Flexible and rigid pavement, their merits and demerits, typical cross-sections, functions of various components 4.2 Sub-grade preparation : Setting out alignment of road, setting out bench marks, control pegs for embankment and cutting, borrow pits, making profile of embankment, construction of embankment, compaction, stabilization, preparation of subgrade, methods of checking camber, gradient and alignment as per recommendations of IRC, equipment used for subgrade preparation 4.3 Flexible pavements : necessity of sub base, stabilized sub bade: purpose of stabilization(no designs) Types of stabilization "a Mechanical stabilization b. Lime stabilization c. Cement stabilization d. Fly ash stabilization	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	5	4.4 Base Course :Preparation of base course a. Brick soling b. Stone soling c. Metalling : Water Bound Macadam and Bituminous Macadam 4.5 Surfacing : Types of surfacing a. Surface dressing b. (i) Premix carpet (ii) Semi dense carpet c. Bituminous concrete d. Grouting Methods of constructions as per Ministry of Surface Transport, specifications and quality control 4.6 Rigid Pavements :Construction of concrete roads as per IRC specifications : From laying, mixing and placing the concrete, compacting and finishing, curing, joints in concrete pavement, equipment used.	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	5	5.1 Introduction :Typical cross-sections showing all details of a typical hill road in cut, partly in cutting and partly in filling 5.2 Breast Walls, Retaining walls,	

5th Semester						
Theory No: 3						
Subject: Highway Engineering (CET-502)						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
8	W 8	02-09-19	07-09-19	5	different types of bends 6.1 Necessity of road drainage work, cross drainage works 6.2 Surface and sub-surface drains and storm water drains. Location, spacing and typical details of side drains, side ditches for surface drainage, intercepting drains	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	5	pipe drains in hill roads, details of drains in cutting embankment, typical cross sections 7.1 Common types of road failures – their causes and remedies 7.2 Maintenance of bituminous road such as patch work and resurfacing	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	5	7.3 Maintenance of concrete roads – filling cracks, repairing joints, maintenance of shoulders (berm), maintenance of traffic control devices. Output and use of the following plant and equipment :8.1 Hot mixing plant8.2 Tipper, tractors (wheel and crawler) scraper, bulldozer, dumpers, shovels, graders, roller dragline8.3 Asphalt mixer and tar boilers	
11	W 11	23-09-19	28-09-19	5	8.4 Road pavers 8.5 Modern construction equipments for roads. 9.1 Basic concept of traffic study 9.2 Traffic safety and traffic control signal 9.3 Road junctions	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	5	9.4 Traffic island and refuge island; advantages and disadvantages 10.1 Meaning of landscaping and arboriculture 10.2 Aesthetics in road side development	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	5	Revision	
14	W 14	21-10-19	26-10-19	5	Revision	
15	W 15	28-10-19	31-10-19	5	Revision	
<b>Total</b>	<b>15</b>			<b>75</b>		

Department of Civil Engineering						
5th Semester						
Theory No:		1				
Subject:		Construction Managemant (CET 601)				
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
1	W 1	15-07-19	20-07-19	5	1.1 Aims and objectives of construction management. 1.2 Functions of construction management. 1.3 The construction team components-owner,engineer,architect,contractor-their functions and interrelationship and jurisdiction. 1.4 Resources for construction management-men,machines,materials,money 2.1 Importance of Construction Planning 2.2 Developing work breakdown structure for construction work 2.3 Construction Planning stages-Pre-tender stage, Post-tender stage. 2.4 Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.	
2	W 2	22-07-19	27-07-19	5	2.5 Preparation of schedules for labour materials,machinery, finance for small works 2.6 Limitation of Bar charts 2.7 Construction scheduling by network techniques-defination of terms ,PERT and CPM techniques, advantages and disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample construction works. 3.1 Classification of Stores-storage of stock. 3.2 Issue of materials-indent , invoice, bin card	
3	W 3	29-07-19	03-08-19	5	3.3. Stores Accounting Procedure 3.4 Inspection of stores, T&P account's register, procedure of write off 4.1 Job Lay out-Objectives, Review plans, specifications, Lay out of equipments. 4.2 Factors influencing selection, design and layout of temporary facilities and services at construction site	

<b>5th Semester</b>						
<b>Theory No: 1</b>						
<b>Subject: Construction Managemant (CET 601)</b>						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
4	W 4	05-08-19	10-08-19	5	4.3 Principles of storing material at site. 4.4 Location of equipment, organizing labour at site.	
5	W 5	12-08-19	17-08-19	5	4.5 Job lay out for different construction sites.	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	5	5.1 Introduction – Characteristics, Structure, importance. 5.2 Organization types-line and staff, functions and their characteristics 5.3 Principles of organization- meaning and significance of terms- control, authority, responsibility, job & task.	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	5	5.4 Leadership-necessity, styles of leadership, role of leader 5.5 Principles of effective supervision 5.6 Human relations-relations with subordinates, peers, Supervisors, characteristics of group behavior, mob psychology, handling of grievances, absenteeism, labour welfare. 5.7 Conflicts in organization-genesis of conflicts, types- intrapersonal, interpersonal, intergroup, resolving conflicts. 6.1 Preparing Labour schedule	
8	W 8	02-09-19	07-09-19	5	6.2 Essential steps for optimum labour output 6.3 Labour characteristics 6.4 Wages & their payment 6.5 Labour incentives 6.6 Motivation- Classification of motives, different approaches to motivation	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	5	6.7 Morale 6.8 Relevant labour laws and case studies related to labour disputes 7.1 Preparing the equipment schedule 7.2 Identification of different alternative equipment	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	5	7.3 Importance of Owning & operating costs in making decisions for hiring & purchase of equipment 7.4 Inspection and testing of equipment 7.5 Equipment maintenance and minor repairs	
11	W 11	23-09-19	28-09-19	5	8.1 Concept of quality in construction	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	5	8.2 Quality Standards- during construction, after construction, destructive & non destructive methods.	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	5	9.1 Programme and progress of work	
14	W 14	21-10-19	26-10-19	5	9.2 Work study 9.3 Analysis and control of physical and financial progress corrective measures. 10.1 Importance of safety	

5th Semester						
Theory No:		1				
Subject:		Construction Managemant (CET 601)				
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
15	W 15	28-10-19	31-10-19	5	10.2 causes and effects of accidents in construction works 10.3 Safety measures in worksites for excavation, scaffolding, formwork, fabrication and errection, demolition. 10.4 Development of safety consciousness 10.5 Safety legislation- Workman's compensation act, contract labour act	
<b>Total</b>	<b>15</b>			<b>75</b>		

**Department of Civil Engineering**

**5th Semester**

**Practical: 2**

**Subject: CADD Lab (CEP502)**

Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
1	W 1	15-07-19	20-07-19	6	Revit Architecture Software: basics -	
2	W 2	22-07-19	27-07-19	6	Modify, wall, door, window, component, Room, roof, floor, grid, lines, dimension, section, level, text, view. Modelling - Ramp, Railing, Stair. Site- Topo surface - Parking	
3	W 3	29-07-19	03-08-19	6		

5th Semester							
Practical: 2							
Subject: CADD Lab (CEP502)							
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks	
		From	To				
4	W 4	05-08-19	10-08-19	6	component,Site component,Align,split,trim,offset,match type,line work,paint,scale,unit,3D view,preparation of approval drawing of a double storied residential building from given specifications with its 3D view using above commands.		
5	W 5	12-08-19	17-08-19	6		12th and 15th Aug'19 are holiday	
6	W 6	19-08-19	24-08-19	6		23rd Aug'19 is Holiday	
7	W 7	26-08-19	31-08-19	6			
8	W 8	02-09-19	07-09-19	6		2nd and 3rd Sept'19 are holiday	
9	W 9	09-09-19	14-09-19	6		9th and 14th Sept'19 are holiday	
10	W 10	16-09-19	21-09-19	6		Introduction to STAAD Pro Software: 2D modelling of structures, use of structure wizard,geometry,property,support,loads and combinations analysis.Analysis of a continous beam with more than two span subjected to udl and point load.	
11	W 11	23-09-19	28-09-19	6			28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	6			2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	6			
14	W 14	21-10-19	26-10-19	6			
15	W 15	28-10-19	31-10-19	6			
<b>Total</b>	<b>15</b>			<b>90</b>			



<b>Department of Civil Engineering</b>						
<b>5th Semester</b>						
<b>Practical: 1</b>						
<b>Subject: CE Lab II (CEP 501)</b>						
<b>Sl No</b>	<b>Week No</b>	<b>Period</b>		<b>Numbers of Classes to be Scheduled</b>	<b>Topics to be covered</b>	<b>Remarks</b>
		<b>From</b>	<b>To</b>			
1	W 1	15-07-19	20-07-19	6	1.1 Determination of Specific gravity of Soil by Pycnometer/Density bottle.	
2	W 2	22-07-19	27-07-19	6	1.2 Determination of Field Density of Soil by Core Cutter Method.	
3	W 3	29-07-19	03-08-19	6	1.3 Determination of Particle Size gradation of sand/Gravel by sieve analysis.	

5th Semester						
Practical: 1						
Subject: CE Lab II (CEP 501)						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
4	W 4	05-08-19	10-08-19	6	1.5 Determination of Liquid Limit by soil by Casagrande's apparatus.	
5	W 5	12-08-19	17-08-19	6	1.6 Determination of Plastic limit of soil. 1.7 Determination of Shrinkage limit of soil.	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	6	1.9 Determination of MDD & OMC of soil by using modified Proctor	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	6	1.12 Determination of CBR value using Laboratory CBR Testing device.	
8	W 8	02-09-19	07-09-19	6	1.13 Determination of Swelling Index, Swelling factor & Swelling pressure of expansion.	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	6	2.1 Penetration Test of Bitumen. 2.2 Ductility Test of Bitumen.	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	6	2.3 Viscosity Test of Bitumen. 2.5 Softening point Test of Bitumen.	
11	W 11	23-09-19	28-09-19	6	2.6 Determination of Bitumen content by centrifuge extractor.	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	6	3.1 Determination of Turbidity of water Sample using Turbidimeter/Nephelometer/Jackson's Candle Turbidimeter. 3.2 Determination of pH of Water sample using (a) pH – meter (b) colour Comparator.	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	6	3.6 Determination of Chloride content of a Water sample using method of titration.	
14	W 14	21-10-19	26-10-19	6	3.8 Determination of Coagulant (Alum) dose requirement for a turbid water sample by Jar Test.	
15	W 15	28-10-19	31-10-19	6	3.9 Determination of dissolved Oxygen of water sample collected from the field using Winkler's method.	
<b>Total</b>	<b>15</b>			<b>90</b>		

Department of Civil Engineering						
5th Semester						
Practical: 3			Subject: Structural Detailing I (CEP 503)			
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
1	W 1	15-07-19	20-07-19	4	(a) Slab, beam and lintel with chaja as in a simple building (Help from Sections 8&9 of SP 34 may be taken ) Plate I	
2	W 2	22-07-19	27-07-19	4		
3	W 3	29-07-19	03-08-19	4		

5th Semester							
Practical: 3							
Subject: Structural Detailing I (CEP 503)							
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks	
		From	To				
4	W 4	05-08-19	10-08-19	4			
5	W 5	12-08-19	17-08-19	4		12th and 15th Aug'19 are holiday	
6	W 6	19-08-19	24-08-19	4	(b) Columns, column-beam connections with & without splicing, isolated footing, staircase (Help from sections 6, 7, 10 of SP 34 may be taken) Plate 2	23rd Aug'19 is Holiday	
7	W 7	26-08-19	31-08-19	4			
8	W 8	02-09-19	07-09-19	4			2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	4			9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	4			
11	W 11	23-09-19	28-09-19	4	(c) Cantilever and a Counter fort retaining walls : deflected shapes of sections at different locations and details of reinforcement (Help from Section 11 and sheet 20 of SP 34 may be taken ) – Plate 3	28th Sept'19 is holiday	
12	W 12	30-09-19	05-10-19	4			2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	4			
14	W 14	21-10-19	26-10-19	4			
15	W 15	28-10-19	31-10-19	4			
<b>Total</b>	<b>15</b>			<b>60</b>			