

Department of Civil Engineering						
3rd Semester						
Theory No:		3				
Subject:		BMCT(TH 03)				
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 Classification of rock, uses of stone, natural bed of stone, 1.2 Qualities of good building stone, 1.3 Dressing of stone 1.4 Characteristics of different types of stone and their uses	
2	W 2	22-07-19	27-07-19	5	2.1 Brick earth – its composition 2.2 Brick making – Preparation of brick earth, Moulding, Drying, Burning in kilns (continuous Process) 2.3 Classification of bricks, size of traditional and modular bricks, qualities of good building bricks	
3	W 3	29-07-19	03-08-19	5	1.1 Classification of bricks, size of traditional and modular bricks, qualities of good building bricks 1.2 Cement, Mortar and Concrete 1.3 Cement: Types of cements, Properties of cements, Manufacturing of cement 1.4 Importance and application of blended cement with fly ash and blast furnace slag.	

3rd Semester						
Theory No: 3						
Subject: BMCT(TH 03)						
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	1.1 Mortar: Definition and types of mortar 1.2 Sources and classification of sand, Bulking of sand 1.3 Use of gravel, morrum and fly ash as different building material 1.4 Concrete: Definition and composition- Water cement ratio- Workability, mechanical properties and grading of aggregates, mixing, placing, compacting and curing of concrete.	
5	W 5	12-08-19	17-08-19	5	4.3 Clay products and refractory materials – Definition and Classification.	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	5	5.1 Composition of Paints, enamels, varnishes. 5.2 Types and uses of surface protective materials like Paints, Enamels, Varnishes, Distempers, Emulsion, French polish and Wax Polish.	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	5	1.1 Buildings and classification of buildings based on occupancy 1.2 Different components of a building. 1.3 Site investigation – objectives, site reconnaissance and explorations 2.1 Concept of foundation and its purpose 2.2 Types of foundations – shallow and deep 2.3 Shallow foundation-constructional details of : Spread foundations for walls, thumb rules for depth and width of foundation and thickness of concrete block	
8	W 8	02-09-19	07-09-19	5	2.4 Deep foundations: Pile foundations-their suitability, classification of piles based on materials, function and method of installation. 3.1 Purpose of walls 3.2 Classification of walls – load bearing, non-load bearing walls, retaining walls. 3.3 Classification of walls as per materials of construction: brick, stone, reinforced brick, reinforced concrete, precast, hollow and solid concrete block and composite masonry walls 3.4 Partition Walls : Suitability and uses of brick and wooden partition walls 3.5 Brick masonry : Definition of different terms	2nd and 3rd Sept'19 are holiday

3rd Semester						
Theory No: 3						
Subject: BMCT(TH 03)						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
9	W 9	09-09-19	14-09-19	5	3.6 Bond – meaning and necessity: English bond for 1 and 1-1/2 Brick thick walls. T, X and right angled corner junctions. Thickness for 1 and 1-1/2 brick square pillars in English bond 3.7 Stone Masonry 3.8 Glossary of terms –String course, corbel, cornice, block-in-course, grouting, mouldings, templates, throating, through stones, parapet, coping, pilaster and buttress 4.1 Glossary of terms used in doors and windows 4.2 Doors – different types of doors	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	5	4.4 Purpose of use of arches and lintels 5.1 Floors: Glossary of terms ,Types of floor finishes – cast-in-situ, concrete flooring(monolithic, bonded), terrazzo tile flooring, cast in situ Terrazzo flooring, timber flooring (Concept only) 5.2 Roofs: Glossary of terms, Types of roofs, concept and function of flat, pitched, hipped and Sloped roofs 5.3 Stairs: Glossary of terms; Stair case, winder, landing, stringer, newel, baluster, rise, tread, width of stair case, hand rail, nosing,	
11	W 11	23-09-19	28-09-19	5	5.4 Various types of stair case – straight flight, dog legged, open well, quarter turn, half turn (newel and geometrical stairs), bifurcated stair, spiral stair, cantilever stair, tread riser stair. Protective, Decorative Finishes, Damp and Termite Proofing 6.1 Plastering – purpose – Types of plastering, Types of plaster finishes – Grit finish, rough cast, smooth cast, sand faced, pebble dash, acoustic plastering and plain plaster etc. 6.2 Proportion of mortars used for different plasters, preparation of	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	5	6.6 Damp and Termite proofing – Materials and Methods. Green Buildings, Energy Management and Energy Audit Of Buildings & Project 7.1 Concept of green building 7.2 Introduction to Energy Management and Energy Audit of Buildings. 7.3 Aims of energy management of buildings. 7.4 Types of energy audit, Response energy audit questionnaire	2nd and 5th Oct'19 is holiday

3rd Semester						
Theory No:		3				
Subject:		BMCT(TH 03)				
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
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						
3rd Semester						
Theory No:		2				
Subject:		Geotechnical Engineering (Th 02)				
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 Soil and Soil Engineering 1.2 Scope of Soil Mechanics 1.3 Origin and formation of soil 1.4 Soil as a three Phase system.	
2	W 2	22-07-19	27-07-19	4	Water Content, Density, Specific gravity, Voids ratio, Porosity, Percentage of air voids, air content, degree of saturation, density Index, Bulk/Saturated/dry/submerged density, Interrelationship of various soil parameters	
3	W 3	29-07-19	03-08-19	4	1.1 Water Content 1.2 Specific Gravity 1.3 Particle size distribution: Sieve analysis, wet mechanical	

3rd Semester						
Theory No: 2						
Subject: Geotechnical Engineering (Th 02)						
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	1.1 Classification of Soil 1.2 I.S. Classification, Plasticity chart	
5	W 5	12-08-19	17-08-19	4	1.1 I.S. Classification, Plasticity chart 1.2 Concept of Permeability, Darcy's Law, Co-efficient of	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	4	1.1 Factors affecting Permeability. 1.2 Constant head permeability and falling head permeability Test.	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	4	1.1 Seepage pressure, effective stress, phenomenon of quick sand 1.2 Compaction and Consolidation 1.3 Compaction: Compaction, Light and heavy compaction Test, Optimum Moisture	
8	W 8	02-09-19	07-09-19	4	Consolidation: Consolidation, distinction between compaction and consolidation.	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	4	1.1 Terzaghi's model analogy of compression/ springs showing the process of consolidation – field implications 1.2 Shear Strength 1.3 Concept of shear strength, Mohr- Coulomb failure theory, Cohesion, Angle of internal friction, strength envelope for different type of soil. Measurement of shear strength	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	4	1.1 Direct shear test, triaxial shear test, unconfined compression test and vane-shear test	
11	W 11	23-09-19	28-09-19	4	Earth Pressure on Retaining Structures 1.1 Active earth pressure, Passive earth pressure, Earth pressure at rest. 1.2 Use of Rankine's formula for the following cases (cohesion-less soil only) <del>(i) Backfill with no surcharge (ii) backfill with uniform surcharge</del>	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	4	1.1 Water conservation, rain water harvesting, water shed management. 1.2 Resettlement and rehabilitation of people; its problems and concern. <del>1.3 Environmental ethics: issue and possible solutions</del>	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	4	1.1 Functions of foundations, shallow and deep foundation, different type of shallow and deep foundations with sketches. Types of failure (General shear, Local shear & punching shear)	

3rd Semester						
Theory No:		2				
Subject:		Geotechnical Engineering (Th 02)				
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
14	W 14	21-10-19	26-10-19	4	Bearing capacity of soil, bearing capacity of soils using Terzaghi's formulae & IS Code formulae for strip, Circular and square footings, Effect water table on bearing capacity of soil.	
15	W 15	28-10-19	31-10-19	4	Plate load test and standard penetration test	
<b>Total</b>	<b>15</b>			<b>60</b>		

Department of Civil Engineering						
3rd Semester						
Theory No:		1				
Subject:		STRUCTURAL MECHANICS (TH 01)				
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 Basic Principle of Mechanics: Force, Moment, support conditions, Conditions of equilibrium, C.G & MI, Free body diagram 1.2 Review of CG and MI of different sections 2.1 Simple Stresses and Strains Introduction to stresses and strains: Mechanical properties of materials – Rigidity, Elasticity, Plasticity, Compressibility, Hardness, Toughness, Stiffness, Brittleness, Ductility, Malleability, Creep, Fatigue, Tenacity, Durability	
2	W 2	22-07-19	27-07-19	5	Types of stresses -Tensile, Compressive and Shear stresses, Types of strains - Tensile, Compressive and Shear strains, Complimentary shear stress - Diagonal tensile / compressive Stresses due to shear, Elongation and Contraction, Longitudinal and Lateral strains, Poisson's Ratio, Volumetric strain, computation of stress, strain, Poisson's ratio, change in dimensions and volume etc, Hooke's law - Elastic Constants, Derivation of relationship between the elastic constants	
3	W 3	29-07-19	03-08-19	5	2.2 Application of simple stress and strain in engineering field: Behaviour of ductile and brittle materials under direct loads, Stress Strain curve of a ductile material, Limit of proportionality, Elastic	



3rd Semester						
Theory No: 1						
Subject: STRUCTURAL MECHANICS (TH 01)						
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	2.3 Complex stress and strain Principal stresses and strains: Occurrence of normal and tangential stresses, Concept of Principal stress and Principal Planes, major and minor principal stresses and their orientations, Mohr's Circle and its application to solve problems of complex stresses Stresses In Beams and Shafts 3.1 Stresses in beams due to bending: Bending stress in beams – Theory of simple bending	
5	W 5	12-08-19	17-08-19	5	Assumptions – Moment of resistance – Equation for Flexure– Flexural stress distribution – Curvature of beam – Position of N.A.	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	5	3.3 Stresses in shafts due to torsion: Concept of torsion, basic assumptions of pure torsion, torsion of solid and hollow circular sections, polar moment of inertia, torsional shearing stresses, angle of twist, torsional rigidity, equation of torsion 3.4 Combined bending and direct stresses: Combination of stresses, Combined direct and bending stresses, Maximum and Minimum stresses in Sections, Conditions for no tension, Limit of eccentricity, Middle third/fourth rule, Core or Kern for square, rectangular and circular sections, chimneys, dams and retaining walls	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	5	4.1 Columns and Struts, Definition, Short and Long columns, End conditions, Equivalent length / Effective length, Slenderness ratio, Axially loaded short and long column, Euler's theory of long columns, Critical load for Columns with different end conditions Shear Force and Bending Moment 5.1 Types of loads and beams: Types of Loads: Concentrated (or) Point load, Uniformly Distributed load (UDL), Types of Supports: Simple support, Roller support, Hinged support, Fixed support,	
8	W 8	02-09-19	07-09-19	5	Types of Reactions: Vertical reaction, Horizontal reaction, Moment reaction, Types of Beams based on support conditions: Calculation of support reactions using equations of static equilibrium.	2nd and 3rd Sept'19 are holiday

3rd Semester						
Theory No: 1						
Subject: STRUCTURAL MECHANICS (TH 01)						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
9	W 9	09-09-19	14-09-19	5	5.2 Shear force and bending moment in beams: Shear Force and Bending Moment: Signs Convention for S.F. and B.M, S.F and B.M of general cases of determinate beams with concentrated loads and udl only, S.F and B.M diagrams for Cantilevers, Simply supported beams and Over hanging beams, Position of maximum BM, Point of contra flexure, Relation between intensity of load, S.F and B.M.	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	5	Slope and Deflection 6.1 Introduction: Shape and nature of elastic curve (deflection curve); Relationship between slope, deflection and curvature (No derivation). Importance of slope and deflection.	
11	W 11	23-09-19	28-09-19	5	6.2 Slope and deflection of cantilever and simply supported beams under concentrated and uniformly distributed load (by Double Integration method. Macaulay's method).	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	5	7.1 Indeterminacy in beams, Principle of consistent deformation/compatibility, Analysis of propped cantilever,	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	5	fixed and two span continuous beams by principle of superposition, SF and BM diagrams (point load and udl covering full span)	
14	W 14	21-10-19	26-10-19	5	8.1 Introduction: Types of trusses, statically determinate and indeterminate trusses, degree of indeterminacy, stable and unstable trusses. advantages of trusses.	
15	W 15	28-10-19	31-10-19	5	8.2 Analysis of trusses: Analytical method ( Method of joints, method of Section)	
<b>Total</b>	<b>15</b>			<b>75</b>		

Department of Civil Engineering						
3rd Semester						
Theory No:		4				
Subject:		Estimating and Cost Evaluation(TH 04)				
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 Types of estimates – Plinth area, floor area / carpet area.1.2 Units and modes of measurements as per IS 1200.1.3 Accuracy of measurement for different item of work.2.1 Short wall long wall method and centre line method, deductions in masonry, plastering, white washing, painting etc., multiplying factor (paint coefficients) for painting of doors and windows (paneled/glazed), grills etc.	
2	W 2	22-07-19	27-07-19	4	2.2 Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including staircase and mumty room.	
3	W 3	29-07-19	03-08-19	4	2.2 Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including staircase and mumty room.	

3rd Semester						
Theory No:		4				
Subject:		Estimating and Cost Evaluation(TH 04)				
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	2.2 Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including staircase and mumty room.	
5	W 5	12-08-19	17-08-19	4	2.2 Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including staircase and mumty room.	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	4	2.2 Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including staircase and mumty room.	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	4	2.2 Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including staircase and mumty room.	
8	W 8	02-09-19	07-09-19	4	2.2 Detailed estimate of single storied flat roof building with shallow foundation and RCC roof slab with leak proof treatment over it including staircase and mumty room.	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	4	3.1 Analysis of rates for cement concrete, brick masonry in Cement Mortar, laterite stone masonry in Cement Mortar, cement plaster, white washing, Artificial Stone flooring, Tile flooring, concrete flooring, R.C.C. with centering and shuttering, reinforcing steel, Painting of doors and windows etc. as per OPWD. 3.2 Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per Orissa P.W.D. system (Concept of C.P.W.D./Railways provisions)	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	4	3.3 Abstract of cost of estimate. 3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.	
11	W 11	23-09-19	28-09-19	4	3.3 Abstract of cost of estimate. 3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.	28th Sept'19 is holiday

3rd Semester						
Theory No:		4				
Subject:		Estimating and Cost Evaluation(TH 04)				
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be Covered	Remarks
		From	To			
12	W 12	30-09-19	05-10-19	4	3.3 Abstract of cost of estimate. 3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	4	3.3 Abstract of cost of estimate. 3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.	
14	W 14	21-10-19	26-10-19	4	3.4 Valuation- Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolesce, methods of valuation.4.1 Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc. Duties and responsibilities of Engineers at different positions /levels	
15	W 15	28-10-19	31-10-19	4	.4.1 Administrative set-up and hierarchy of Engineering department in State Govt./Central Govt./PSUs/Private Sectors etc. Duties and responsibilities of Engineers at different positions /levels.	
<b>Total</b>	<b>15</b>			<b>60</b>		

Department of Civil Engineering						
3rd Semester						
Theory No:		5				
Subject:		Environmental Studies (TH-05)				
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	1.1The Multidisciplinary nature of environmental studies Definition, scope and importance, Need for public awareness.	
2	W 2	22-07-19	27-07-19	4	1.1Natural Resources Renewable and non renewable resources: Natural resources and associated problems.Forest resources: Use and over-exploitation, deforestation, case studies, Timber extraction mining, dams and their effects on forests and tribal people. 1.2Natural resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam's benefits and problems. 1.3 Mineral Resources: Use and exploitation, environmental effects of extracting and using mineral resources. 1.4Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers-pesticides problems, water logging, salinity, . 1.5 Energy Resources: Growing energy need, renewable and non-renewable energy sources, use of alternate energy sources, case studies. 1.6 Land Resources: Land as a resource, land degradation, man induces landslides, soil erosion, and desertification.	
3	W 3	29-07-19	03-08-19	4	1.1Role of individual in conservation of natural resources.	

3rd Semester						
Theory No: 5						
Subject: Environmental Studies (TH-05)						
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	1.1 Equitable use of resources for sustainable life styles. Concept of an eco system. 1.2 Nature and function of an eco system. 1.3 Producers, consumers, decomposers. <del>1.4 Energy flow in the eco systems</del>	
5	W 5	12-08-19	17-08-19	4	1.1 Ecological succession. 1.2 Food chains, food webs and ecological pyramids. 1.3	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	4	1.1 Forest ecosystem: 1.1 Aquatic eco systems (ponds, streams, lakes, rivers, oceans, estuaries). Introduction-Definition: genetics, species and ecosystem diversity. <del>1.2 Geogeographically classification of India</del>	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	4	1. Value of biodiversity: consumptive use, productive use, social ethical, aesthetic and optin values.	
8	W 8	02-09-19	07-09-19	4	1.1 Threats to biodiversity: Habitats loss, poaching of wild life, man wildlife conflicts. Definition Causes, effects and control measures of: 1.2 Air pollution. 1.3 water pollution. 1.4 Soil pollution	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	4	1.1 Marine pollution 1.2 Noise pollution.	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	4	1.1 Thermal pollution 1.2 Nuclear hazards.	
11	W 11	23-09-19	28-09-19	4	1.1 Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution. Disaster management: Floods, earth quake, cyclone and land slides. Form unsustainable to sustainable development. <del>1.2 Urban problems related to energy</del>	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	4	1.1 Water conservation, rain water harvesting, water shed management. 1.2 Resettlement and rehabilitation of people; its problems nd concern. <del>1.3 Environmental ethics: issue and possible solutions</del>	2nd and 5th Oct'19 is holiday

3rd Semester						
Theory No: 5						
Subject: Environmental Studies (TH-05)						
Sl No	Week No	Period		Numbers of Classes to be Scheduled	Topics to be covered	Remarks
		From	To			
13	W 13	14-10-19	19-10-19	4	1.1Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies. 1.2Air (prevention and control of pollution) Act. 1.3Water (prevention and control of pollution) Act. 1.4Public awareness	
14	W 14	21-10-19	26-10-19	4	1.1Water conservation, rain water harvesting, water shed management. Resettlement and rehabilitation of people; its problems and concern. 1.2Environmental ethics: issue and possible solutions.	
15	W 15	28-10-19	31-10-19	4	1.1Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies. 1.2Air (prevention and control of pollution) Act. 1.3Water (prevention and control of pollution) Act. 1.4Public awareness	
<b>Total</b>	<b>15</b>			<b>60</b>		



Department of Civil Engineering						
3rd Semester						
Practical: 1						
Subject: CE Lab I (Pr. 01)						
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	Determination of Young's Modulus of steel in a tensile testing machine.	
2	W 2	22-07-19	27-07-19	6	Determination of fineness of Cement by sieving.	
3	W 3	29-07-19	03-08-19	6	Determination of normal Consistency,	

<b>3rd Semester</b>						
<b>Practical: 1</b>						
<b>Subject: CE Lab I (Pr. 01)</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	6	initial and final setting time of Cement	
5	W 5	12-08-19	17-08-19	6	Determination of soundness of Cement by Le-Chatelier apparatus.	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	6	Determination of Compressive Strength of cement.	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	6	Determination of Compressive Strength of Burnt clay, Fly Ash Bricks and Blocks.	
8	W 8	02-09-19	07-09-19	6	Grading of Fine & Coarse aggregate by sieving for concrete .	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	6	Determination of Specific Gravity and Bulking of sand.	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	6	Determination of Specific Gravity and Bulk density of coarse aggregate.	
11	W 11	23-09-19	28-09-19	6	Grading of Road Aggregates.	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	6	Determination of Crushing Value Test of aggregates.	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	6	Impact test of aggregate.	
14	W 14	21-10-19	26-10-19	6	Determination of Compressive Strength of concrete cubes.	
15	W 15	28-10-19	31-10-19	6	Determination of Workability of concrete by: a) Slump Cone method, b) Compaction Factor method.	
<b>Total</b>	<b>15</b>			<b>90</b>		

Department of Civil Engineering						
3rd Semester						
Practical: 2			Subject: CIVIL ENGINEERING DRAWING-I			
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 Recap of the Draw, Format, Edit, Dimension, Modify commands 1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	
2	W 2	22-07-19	27-07-19	5	1.1 Recap of the Draw, Format, Edit, Dimension, Modify commands 1.2 Draw 2D drawings of the following Building Components - Doors, Windows, Cross section through wall, Spread footing, Column footing, Stairs case, R.C.C. T-beam and slab	
3	W 3	29-07-19	03-08-19	5	1.3 Develop Isometric drawings of simple objects 1.4 Develop 3D drawings of simple objects.	

<b>3rd Semester</b>						
<b>Practical: 2</b>						
<b>Subject: CIVIL ENGINEERING DRAWING-I</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	1.3 Develop Isometric drawings of simple objects 1.4 Develop 3D drawings of simple objects.	
5	W 5	12-08-19	17-08-19	5	1.3 Develop Isometric drawings of simple objects 1.4 Develop 3D drawings of simple objects.	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	5	2.1 Plan at window sill level of a single storeyed R.C. roof slab building with elevation and sectional views from given line diagram and specification. 2.2 Detail drawing of Double storeyed pucca building with R.C.C. stair case from line diagram and given specification.	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	5	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc.	
8	W 8	02-09-19	07-09-19	5	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc.	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	5	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc.	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	5	2.3 Preparation of approval drawing of a residential building as per the norms of local approving authority with site plan, index plan etc.	
11	W 11	23-09-19	28-09-19	5	Detail drawing of inclined roof building from given line diagram and specification. (gabled / hipped)	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	5	Detail drawing of inclined roof building from given line diagram and specification. (gabled / hipped)	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	5	4.1 Planning of buildings for specific cost based on approximate plinth area rate.	
14	W 14	21-10-19	26-10-19	5	4.2 Orientation of buildings, location of openings and living areas.	
15	W 15	28-10-19	31-10-19	5	4.3 Line plan of School, hostel, market complex and dispensary building.	
<b>Total</b>	<b>15</b>			<b>75</b>		

Department of Civil Engineering						
3rd Semester						
Practical: 3			Subject: ESTIMATING PRACTICE			
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	3	1.0 Preparation of plinth area estimate & detailed estimate for the following ;	
2	W 2	22-07-19	27-07-19	3	1.0 Preparation of plinth area estimate & detailed estimate for the following ;	
3	W 3	29-07-19	03-08-19	3	1.1 Single storeyed two roomed building with specification as per Orissa P.W.D. schedule of rates and analysis of rates	

3rd Semester						
Practical: 3						
Subject: ESTIMATING PRACTICE						
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	3	1.1 Single storeyed two roomed building with specification as per Orissa P.W.D. schedule of rates and analysis of rates	
5	W 5	12-08-19	17-08-19	3	1.2 A two storeyed pucca Building with specification as per Orissa P.W.D. schedule of rates and analysis of rates	12th and 15th Aug'19 are holiday
6	W 6	19-08-19	24-08-19	3	1.2 A two storeyed pucca Building with specification as per Orissa P.W.D. schedule of rates and analysis of rates	23rd Aug'19 is Holiday
7	W 7	26-08-19	31-08-19	3	1.2 A two storeyed pucca Building with specification as per Orissa P.W.D. schedule of rates and analysis of rates	
8	W 8	02-09-19	07-09-19	3	2.0 Analysis of rates in detail for the above items of works basing on Orissa Govt. analysis of rate with help of MS Excel software.	2nd and 3rd Sept'19 are holiday
9	W 9	09-09-19	14-09-19	3	2.0 Analysis of rates in detail for the above items of works basing on Orissa Govt. analysis of rate with help of MS Excel software.	9th and 14th Sept'19 are holiday
10	W 10	16-09-19	21-09-19	3	2.0 Analysis of rates in detail for the above items of works basing on Orissa Govt. analysis of rate with help of MS Excel software.	
11	W 11	23-09-19	28-09-19	3	3.0 Calculation of dry materials for different items of building basing on Orissa Govt. analysis of rate with help of MS Excel software	28th Sept'19 is holiday
12	W 12	30-09-19	05-10-19	3	3.0 Calculation of dry materials for different items of building basing on Orissa Govt. analysis of rate with help of MS Excel software	2nd and 5th Oct'19 is holiday
13	W 13	14-10-19	19-10-19	3	3.0 Calculation of dry materials for different items of building basing on Orissa Govt. analysis of rate with help of MS Excel software	
14	W 14	21-10-19	26-10-19	3	4.0 Preparation of abstract of cost and bill of quantities of the estimates as per item no. 1.0 above with help of MS Excel software	
15	W 15	28-10-19	31-10-19	3	4.0 Preparation of abstract of cost and bill of quantities of the estimates as per item no. 1.0 above with help of MS Excel software	
<b>Total</b>	<b>15</b>			<b>45</b>		