

Lesson Plan

Name of the Faculty : _____ **Discipline :** Civil Engineering **L T P**
Subject : STEEL STRUCTURES DESIGN **Semester :** 5th **5 - -**
Lesson Plan Duration : 15 Weeks (from Jul-2018 to Dec-2018)

Week	Theory		Delivery Date of Lecture		Whether the Lesson Plan Followed? Yes/No
	Lecture Day	Topic (including Assignments / Seminar / Group Discussion / Sessional Tests)	Expected	Actual	
1 st	1 st	Introduction to the subject and its necessity e-Lecture/Video Lecture/PPT's on the subject matters			
	2 nd	Unit 1: Structural Steel and Sections (02 Hrs) e-Lecture/Video Lecture/PPT's on concept of Structural Steel and Sections			
	3 rd	Properties of structural steel as per IS Code Designation of structural steel sections as per IS handbook and IS:800 - 2007			
	4 th	Unit 2: Riveted Connections (10 Hrs) Types of rivets, permissible stresses in rivets,			
	5 th	Types of riveted joints,			
2 nd	1 st	Assumptions in the theory of riveted joints, Specifications for riveted joints as per IS 800.			
	2 nd	Failure of a riveted joint.			
	3 rd	Strength and efficiency of a riveted joint.			
	4 th	Design of riveted joints for axially loaded members (No Staggered riveting).			
	5 th	Numerical Problems Practice			
3 rd	1 st	Numerical Problems Practice			
	2 nd	Numerical Problems Practice			
	3 rd	Numerical Problems Practice			
	4 th	Unit 3: Bolted and Welded connections (06 Hrs) Types of bolts and bolted joints, specifications for bolted joints as per IS: 800 - 2007			
	5 th	Types of welds and welded joints,			
4 th	1 st	advantages and disadvantages of welded joints and bolted joints			
	2 nd	design of fillet weld : Numerical Problems Practice			
	3 rd	Numerical Problems Practice			
	4 th	design of butt weld : Numerical Problems Practice			
	5 th	Numerical Problems Practice			
5 th	1 st	Plug and slot welds (Descriptive No numerical on plug and slot welds) Assignment - 1			

	2 nd	Sessional Test – 1			
	3 rd	Group discussion / Technical Quiz / Seminar			
	4 th	Unit 4: Tension Members (16 Hrs) Analysis and design of single and double angle section tension members and their rivetted and welded connections with gusset plate as per IS:800			
	5 th	Analysis and design of single angle section tension members as per IS:800			
6 th	1 st	Analysis and design of double angle section tension members as per IS:800			
	2 nd	Numerical Problems Practice			
	3 rd	Analysis and design of single angle section tension members and their riveted connections as per IS:800			
	4 th	Analysis and design of single angle section tension members and their welded connections as per IS:800			
	5 th	Numerical Problems Practice			
7 th	1 st	Analysis and design of double angle section tension members and their riveted connections as per IS:800			
	2 nd	Analysis and design of double angle section tension members and their welded connections as per IS:800			
	3 rd	Numerical Problems Practice			
	4 th	Analysis and design of single and double angle section tension members and their rivetted and welded connections with gusset plate as per IS:800			
	5 th	Numerical Problems Practice			
8 th	1 st	Numerical Problems Practice			
	2 nd	Unit 5: Compression Members (16 Hrs) Analysis and design of single and double angle sections compression members (struts) and their welded connections with gusset plate as per IS:800			
	3 rd	Analysis and design of single angle sections compression members (struts) as per IS:800			
	4 th	Analysis and design of single angle sections compression members (struts) and their welded connections with gusset plate as per IS:800			
	5 th	Numerical Problems Practice			
9 th	1 st	Numerical Problems Practice			
	2 nd	Analysis and design of double angle sections compression members (struts) as per IS:800			
	3 rd	Analysis and design of double angle sections compression members (struts) and their welded connections with gusset plate as per IS:800			
	4 th	Numerical Problems Practice	Assignment - 2		
	5 th	Numerical Problems Practice			
10 th	1 st	Sessional Test – 2			
	2 nd	Group discussion / Technical Quiz / Seminar			
	3 rd	Unit 6: Roof Trusses (06 Hrs) Form of trusses,			

	4 th	pitch of roof truss, spacing of trusses,			
	5 th	spacing of purlins, connection between purlin and roof covering.			
11 th	1 st	Connection between purlin and principal rafter (no design, only concept)			
	2 nd	e-Lecture/Video Lecture on Roof Trusses			
	3 rd	Unit 7: Columns (10 Hrs) e-Lecture/Video Lecture on concept of Columns			
	4 th	Concept of buckling of columns, effective length and slenderness ratio,			
	5 th	Permissible stresses in compression as per IS: 800 for different end conditions.			
12 th	1 st	Analysis and Design of axially loaded single section steel column			
	2 nd	Numerical Problems Practice			
	3 rd	Types of column bases (Descriptive only)			
	4 th	Beam and column, frame and seated connections (descriptive only, no design)			
	5 th	Numerical Problems Practice			
13 th	1 st	Numerical Problems Practice			
	2 nd	Unit 8: Beams (10 Hrs) e-Lecture/Video Lecture on concept of Beams			
	3 rd	Analysis and design of single section simply supported laterally restrained steel beams.			
	4 th	Numerical Problems Practice			
	5 th	Numerical Problems Practice			
14 th	1 st	Numerical Problems Practice			
	2 nd	Introduction to plate girder and functions of various elements of a plate girder			
	3 rd	Numerical Problems Practice			
	4 th	Numerical Problems Practice			
	5 th	Unit 9: Fabrication and Erection of Steel Structures (02 Hrs) e-Lecture/Video Lecture on concept of Fabrication and Erection of Steel Structures			
15 th	1 st	Group discussion / Technical Quiz / Seminar			
	2 nd	Fabrication and Erection of Steel Structures like trusses, columns and girders			
	3 rd	Unit 10: Fabrication and Erection of Steel Structures (02 Hrs) e-Lecture/Video Lecture on concept of Masonry structures			
	4 th	Masonry structures - Design of brick column and wall foundations			
	5 th	Sessional Test – 3			

Lesson Plan

Name of the Faculty : _____ Discipline : **Civil Engineering** L T P
 Subject : **HIGHWAY ENGINEERING** Semester : **5th** 5 - -
 Lesson Plan Duration : **15 Weeks (from Jul-2018 to Dec-2018)**

Week	Theory		Delivery Date of Lecture		Whether the Lesson Plan Followed? Yes/No
	Lecture Day	Topic (including Assignments / Seminar / Group Discussion / Sessional Tests)	Expected	Actual	
1 st	1 st	Introduction to the subject and its necessity e-Lecture/Video Lecture on the subject matters			
	2 nd	Unit 1: Introduction (02 Hrs) Importance of Highway engineering, Functions of IRC, CRRI, MORT&H, NHAI			
	3 rd	IRC classification of roads			
	4 th	Unit 2: Road Geometrics (10 Hrs) e-Lecture/Video Lecture on the Road Geometrics			
	5 th	Glossary of terms used in road geo-metrics and their importance: Right of way, formation width, road margin, road shoulder, carriage way,			
2 nd	1 st	Glossary of terms used in road geo-metrics and their importance: carriage way, side slopes, kerbs, formation levels, camber and gradient			
	2 nd	Average running speed, stopping and passing sight distance			
	3 rd	Necessity of curves, horizontal and vertical curves including transition curves. Super elevation and methods of providing super elevation			
	4 th	e-Lecture/Video Lecture on the Curves			
	5 th	Sketch of typical cross-sections in cutting and filling on straight alignment and at a curve			
3 rd	1 st	Group discussion / Quarries / Technical Quiz / Seminar			
	2 nd	Unit 3: Highway Surveys and Plan (10 Hrs) e-Lecture/Video Lecture on the concept of highway surveys and plans			
	3 rd	Topographic map, reading the data given on a topographic map			
	4 th	Topographic map, reading the data given on a topographic map			
	5 th	Basic considerations governing alignment for a road in plain and hilly area			
4 th	1 st	Basic considerations governing alignment for a road in plain and hilly area			
	2 nd	Highway location; marking of alignment			
	3 rd	Highway location; marking of alignment			
	4 th	Quarries / Assignment -1			
	5 th	Unit 4: Road Materials (10 Hrs)			

		e-Lecture/Video Lecture on road materials			
5 th	1 st	Different types of road materials in use; soil, aggregate,			
	2 nd	Different types of road materials in use; binders - bitumen, cutback, Emulsion and Modified Bitumen (CRMB, PMB)			
	3 rd	Binders: Common binders; bitumen, properties as per BIS specifications,			
	4 th	penetration, softening point, ductility and viscosity test of bitumen, procedures and significance,			
	5 th	Sessional Test -1			
6 th	1 st	penetration, softening point, ductility and viscosity test of bitumen, procedures and significance,			
	2 nd	cut back and emulsion and their uses, Bitumen modifiers			
	3 rd	cut back and emulsion and their uses, Bitumen modifiers			
	4 th	Group discussion / Technical Quiz / Seminar			
	5 th	Unit 5: Road Pavements (12 Hrs) e-Lecture/Video Lecture on concept of road pavements: Rigid and Flexible Pavements			
7 th	1 st	Road pavement: Flexible pavement and Rigid pavement, their merits and demerits, typical cross-sections, functions of various components			
	2 nd	Introduction to California Bearing Ratio, method of finding CBR value and its significance. Aggregate : Source and types, important properties, strength, durability e-Lecture/Video Lecture on CBR			
	3 rd	Sub-grade preparation: Setting out alignment of road, setting out bench marks, control pegs for embankment and cutting, borrow pits, making profiles of embankment, construction of embankment, compaction, preparation of subgrade,			
	4 th	Sub-grade preparation: methods of checking camber, gradient and alignment as per recommendations of IRC, equipment used for subgrade preparation.			
	5 th	Sub-grade preparation: Stabilization of subgrade. Types of stabilization mechanical stabilization, lime stabilization, cement stabilization, fly ash stabilization etc. e-Lecture/Video Lecture on sub-grade preparation:			
8 th	1 st	Introduction to Sub Base Course and Base Course: a) Granular base course: (i) Water Bound Macadam (WBM) (ii) Wet Mix Macadam (WMM)			
	2 nd	Introduction to Sub Base Course and Base Course: b) Bitumen Courses: (i) Bituminous Macadam (ii) Dense Bituminous Macadam (DBM)			
	3 rd	Introduction to Sub Base Course and Base Course: c) Methods of construction as per MORT&H e-Lecture/Video Lecture on Sub Base Course and Base Course			
	4 th	Surfacing: a) Types of surfacing: i) Prime coat and tack coat ii) Surface dressing with seal coat iii) Open graded premix carpet iv) Mix seal surfacing			
	5 th	Surfacing: a) Types of surfacing: v) Semi dense bituminous concrete vi) Bituminous Concrete/Asphaltic concrete			

		vii) Mastic Asphalt b) Methods of constructions as per MORT&H specifications and quality control. e-Lecture/Video Lecture on Surfacing			
9 th	1 st	Rigid Pavements: Construction of concrete roads as per IRC specifications: Form work laying, mixing and placing the concrete, compacting and finishing, curing,			
	2 nd	Rigid Pavements: Construction of concrete roads as per IRC specifications: joints in concrete pavement, equipment used e-Lecture/Video Lecture on Rigid Pavements			
	3 rd	Group discussion / Technical Quiz / Seminar			
	4 th	Unit 6: Hill Roads (06 Hrs) Introduction: Typical cross-sections showing all details of a typical hill road, partly in cutting and partly in filling			
	5 th	Special problems of hill areas: Landslides: Causes, prevention and control measures, use of geogrids, geoflexiles, geo-synthetics			
10 th	1 st	Special problems of hill areas: Drainage, Soil erosion			
	2 nd	Special problems of hill areas: Snow clearance, snow avalanches, frost , Land Subsidence e-Lecture/Video Lecture on Special problems of hill areas			
	3 rd	Unit 7: Road Drainage (06 Hrs) e-Lecture/Video Lecture on Road Drainage Works			
	4 th	Necessity of road drainage work, cross drainage works			
	5 th	Surface and subsurface drains and storm water drains.			
11 th	1 st	Location, spacing and typical details of side drains, side ditches for surface drainage.			
	2 nd	Intercepting drains, pipe drains in hill roads, details of drains in cutting embankment, typical cross sections			
	3 rd	Quarries / Assignment -2			
	4 th	Sessional Test – 2			
	5 th	Unit 8: Road Maintenance (06 Hrs) e-Lecture/Video Lecture on Road Maintenance			
12 th	1 st	Common types of road failures of flexible pavements: Pot hole, rutting - their causes and remedies (brief description)			
	2 nd	Common types of road failures of flexible pavements: Alligator cracking, upheaval - their causes and remedies (brief description)			
	3 rd	Maintenance of bituminous road such as seal-coat, patch-work and recarpetng.			
	4 th	Maintenance of concrete roads-filling cracks, repairing joints, maintenance of shoulders (berms), maintenance of traffic control devices			
	5 th	Group discussion / Technical Quiz / Seminar			
13 th	1 st	Unit 9: Road Construction Equipment (08 Hrs) e-Lecture/Video Lecture on Road Construction Equipment			

	2 nd	Output and use of the following plant and equipment: Hot mix plant			
	3 rd	Output and use of the following plant and equipment: Tipper, tractors (wheel and crawler) scraper,			
	4 th	Output and use of the following plant and equipment: Bulldozer, dumpers, shovels,			
	5 th	Output and use of the following plant and equipment: Grader, roller, dragline			
14 th	1 st	Output and use of the following plant and equipment: Asphalt mixer and tar boilers			
	2 nd	Output and use of the following plant and equipment: Road pavers			
	3 rd	Unit 10: Airport Engineering (10 Hrs) e-Lecture/Video Lecture on Airport Engineering			
	4 th	Necessity of study of airport engineering, aviation transport scenario in India.			
	5 th	Factors to be considered while selecting a site for an airport with respect to zoning laws.			
15 th	1 st	Introduction to Runways,			
	2 nd	Introduction to Taxiways			
	3 rd	Introduction to Apron			
	4 th	Group discussion / Technical Quiz / Seminar			
	5 th	Sessional Test - 3			

Lesson Plan

Name of the Faculty : _____ Discipline : **Civil Engineering** L T P
 Subject : **SOIL AND FOUNDATION ENGINEERING** Semester : **5th** 4 - -
 Lesson Plan Duration : **15 Weeks (from Jul-2018 to Dec-2018)**

Week	Theory		Delivery Date of Lecture		Whether the Lesson Plan Followed? Yes/No
	Lecture Day	Topic (including Assignments / Seminar / Group Discussion / Sessional Tests)	Expected	Actual	
1 st	1 st	Introduction to the subject and its necessity e-Lecture/Video Lecture /PPTs on the subject matters			
	2 nd	Unit 1: Introduction (03 Hrs) Importance of soil studies in Civil Engineering, Geological origin of soils with special reference to soil profiles in India: residual and transported soil, alluvial deposits, lake deposits			
	3 rd	Dunes and loess, glacial deposits, black cotton soils, conditions in which above deposits are formed and their engineering characteristics.			
	4 th	Names of organizations dealing with soil engineering work in India, soil map of India e-Lecture/Video Lecture /PPTs on Geological origin of soils / Quarries			
2 nd	1 st	Unit 2: Physical Properties of Soils (04 Hrs) Constituents of soil and representation by a phase diagram Definitions of void ratio, porosity, water content, degree of saturation, specific gravity, unit weight, bulk density/bulk unit weight,			
	2 nd	Definitions of dry unit weight, saturated unit weight and submerged unit weight of soil grains and correlation between them			
	3 rd	Simple numerical problems with the help of phase diagrams / Quarries			
	4 th	Unit 3: Classification and Identification of Soils (04 Hrs) Particle size, shape and their effect on engineering properties of soil, particle size classification of soils, Gradation and its influence on engineering properties,			
3 rd	1 st	Relative density and its use in describing cohesionless soils, Behaviour of cohesive soils with change in water content, Atterberg's limit - definitions, use and practical significance			
	2 nd	Field identification tests for soils, Soil classification system as per BIS 1498; basis, symbols, major divisions and sub divisions, groups, plasticity chart; procedure for classification of a given soil			
	3 rd	e-Lecture/Video Lecture /PPTs on Classification and Identification of Soils / Quarries			
	4 th	Unit 4: Flow of Water Through Soils (04 Hrs) e-Lecture/Video Lecture /PPTs on Permeability of soils			
4 th	1 st	Concept of permeability and its importance, Darcy's law, coefficient of permeability, Seepage velocity and factors affecting permeability			
	2 nd	Comparison of permeability of different soils as per BIS, Measurement of permeability in the laboratory			

	3 rd	Numerical problems on permeability / Quarries			
	4 th	Group discussion / Technical Quiz / Seminar			
5 th	1 st	Unit 5: Effective Stress (Concept only) (04 Hrs) e-Lecture/Video Lecture /PPTs on Effective Stress			
	2 nd	Stresses in subsoil, Definition and meaning of total stress, effective stress and neutral stress			
	3 rd	Principle of effective stress, Importance of effective stress in engineering problems			
	4 th	Simple numerical conceptual problems on effective stress / Quarries			
6 th	1 st	Sessional Test – 1 / Assignment – 1			
	2 nd	Unit 6: Deformation of Soils (04 Hrs) e-Lecture/Video Lecture /PPTs on deformation of soils			
	3 rd	Meaning, conditions/situations of occurrence with emphasis on practical significance of: Consolidation and settlement, Creep, Plastic Flow, Heaving, Lateral movement forces and thaw of soil			
	4 th	Definition and practical significance of compression index, coefficient of consolidation, degree of consolidation.			
7 th	1 st	Meaning of total settlement, uniform settlement and differential settlement; rate of settlement and their effects			
	2 nd	Settlement due to construction operations and lowering of water table, Tolerable settlement for different structures as per BIS			
	3 rd	Unit 7: Shear Strength Characteristics of Soils (09 Hrs) e-Lecture/Video Lecture /PPTs on Shear Strength Characteristics of Soils			
	4 th	Concept and Significance of shear strength			
8 th	1 st	Factors contributing to shear strength of cohesive and cohesion less soils, Coulomb's law			
	2 nd	Factors contributing to shear strength of cohesive and cohesion less soils, Coulomb's law			
	3 rd	Examples of shear failure in soils			
	4 th	Examples of shear failure in soils			
9 th	1 st	Examples of shear failure in soils			
	2 nd	Unit 8: Compaction (04 Hrs) e-Lecture/Video Lecture /PPTs on Compaction of Soils			
	3 rd	Definition and necessity of compaction, Laboratory compaction test (Standard proctor test as per BIS) definition and importance of optimum water content, maximum dry density; moisture dry density relationship for typical soils with different compactive efforts			
	4 th	Definition and necessity of compaction, Laboratory compaction test (Modified proctor test as per BIS) definition and importance of optimum water content, maximum dry density; moisture dry density relationship for typical soils with different compactive efforts			
10 th	1 st	Compaction control; Density control, measurement of field density by core cutter method and sand replacement method,			
	2 nd	Compaction control; moisture control, Proctor's needle and its use, thickness control, jobs of an embankment supervisor in relation to compaction			

	3 rd	Unit 9: Soil Exploration (08 Hrs) Purpose and necessity of soil exploration Reconnaissance, methods of soil exploration, Trial pits			
	4 th	Borings (auger, wash, rotary, percussion to be briefly dealt)			
11 th	1 st	Sampling; undisturbed, disturbed and representative samples; selection of type of sample;			
	2 nd	thin wall and piston samples; area ratio, recovery ratio of samples and their significance, number and quantity of samples			
	3 rd	Group discussion / Technical Quiz / Seminar			
	4 th	Sessional Test – 2 / Assignment – 2			
12 th	1 st	Resetting, sealing and preservation of samples, Presentation of soil investigation results			
	2 nd	e-Lecture/Video Lecture /PPTs on Soil Exploration			
	3 rd	Unit 10: Bearing Capacity of soil (10 Hrs) Concept of bearing capacity, Definition and significance of ultimate bearing capacity, net safe bearing capacity and allowable bearing pressure			
	4 th	Guidelines of BIS (IS 6403) for estimation of bearing capacity of soil, Factors affecting bearing capacity			
13 th	1 st	Concept of vertical stress distribution in soils due to foundation loads, pressure bulb			
	2 nd	Applications of SPT, unconfined compression test and direct shear test in estimation of bearing capacity, Simple numerical problems on SPT			
	3 rd	Plate load test (no procedure details) and its limitations, e-Lecture/Video Lecture /PPTs on SPT and Plate load test			
	4 th	Improvement of bearing capacity by sand drain method, compaction, use of geo-synthetics. Assignment - 3			
14 th	1 st	Unit 11: Foundation Engineering (10 Hrs) Concept of shallow and deep foundation; types of shallow foundations: isolated, combined, strip, mat, and their suitability.			
	2 nd	Factors affecting the depth of shallow foundations, deep foundations, type of piles and their suitability;			
	3 rd	Factors affecting the depth of shallow foundations, deep foundations, type of piles and their suitability;			
	4 th	Group discussion / Technical Quiz / Seminar			
15 th	1 st	Pile classification on the basis of material, pile group and pile cap.			
	2 nd	Pile classification on the basis of material, pile group and pile cap.			
	3 rd	e-Lecture/Video Lecture /PPTs on Foundation Engineering			
	4 th	Sessional Test – 3			

Lesson Plan

Name of the Faculty : _____ Discipline : **Civil Engineering** L T P
 Subject : **ENVIRONMENTAL EDUCATION** Semester : **5th** 3 - -
 Lesson Plan Duration : **15 Weeks (from Jul-2018 to Dec-2018)**

Week	Theory		Delivery Date of Lecture		Whether the Lesson Plan Followed? Yes/No
	Lecture Day	Topic (including Assignments / Seminar / Group Discussion / Sessional Tests)	Expected	Actual	
1 st	1 st	Introduction to the subject and its necessity e-Lecture/Video Lecture /PPTs on the subject matters			
	2 nd	Unit – 1 (02 Hrs) Definition and Scope of Environmental Education			
	3 rd	Importance of Environmental Education			
2 nd	1 st	Unit – 2 (03 Hrs) Basics of ecology, biodiversity,			
	2 nd	Eco system and sustainable development			
	3 rd	Unit – 3 (12 Hrs) e-Lecture/Video Lecture /PPTs on the Sources of pollution			
3 rd	1 st	Sources of pollution - natural and manmade			
	2 nd	causes, effects and control measures of pollution (air) and their units of measurement			
	3 rd	causes, effects and control measures of pollution (water) and their units of measurement			
4 th	1 st	causes, effects and control measures of pollution (noise) and their units of measurement			
	2 nd	causes, effects and control measures of pollution (soil) and their units of measurement			
	3 rd	causes, effects and control measures of pollution (radioactive) and their units of measurement			
5 th	1 st	causes, effects and control measures of pollution (nuclear) and their units of measurement			
	2 nd	Quarries / Assignment -2			
	3 rd	Sessional Test -1			
6 th	1 st	Group discussion / Technical Quiz / Seminar			
	2 nd	Unit – 4 (06 Hrs) e-Lecture/Video Lecture /PPTs on the SWM			
	3 rd	Solid waste management – Causes of urban and industrial waste			
7 th	1 st	Solid waste management - Effects of urban and industrial waste			
	2 nd	Solid waste management - Control measures of urban and industrial waste			
	3 rd	Quarries / Revision			

8 th	1 st	Unit – 5 (04 Hrs) e-Lecture/Video Lecture /PPTs on the Mining and Deforestation			
	2 nd	Mining - Causes, effects and control measures			
	3 rd	Deforestation - Causes, effects and control measures			
9 th	1 st	Unit – 6 (10 Hrs) e-Lecture/Video Lecture /PPTs on the Environmental Legislation			
	2 nd	Environmental Legislation - Water (prevention and control of pollution) Act 1974			
	3 rd	Environmental Legislation - Air (Prevention and Control of Pollution) Act 1981			
10 th	1 st	Environmental Legislation - Environmental Protection Act 1986,			
	2 nd	Environmental Legislation - Role and Function of State Pollution Control Board,			
	3 rd	Environmental Legislation - Environmental Impact Assessment (EIA)			
11 th	1 st	Sessional Test -2			
	2 nd	Group discussion / Technical Quiz / Seminar			
	3 rd	Unit – 7 (04 Hrs) e-Lecture/Video Lecture /PPTs on the Environmental Legislation			
	4 th	Role of Non-conventional Energy Resources (Solar Energy)			
	5 th	Role of Non-conventional Energy Resources (Wind Energy)			
12 th	1 st	Role of Non-conventional Energy Resources (Bio Energy)			
	2 nd	Role of Non-conventional Energy Resources (Hydro Energy)			
	3 rd	Quarries / Revision			
13 th	1 st	Unit – 8 (04 Hrs) e-Lecture/Video Lecture /PPTs on the Current Issues in Environmental Pollution			
	2 nd	Current Issues in Environmental Pollution - Global Warming			
	3 rd	Current Issues in Environmental Pollution - Green House Effect			
14 th	1 st	Current Issues in Environmental Pollution - Depletion of Ozone Layer, Recycling of Material			
	2 nd	Current Issues in Environmental Pollution - Environmental Ethics, Rain Water Harvesting			
	3 rd	Current Issues in Environmental Pollution - Maintenance of Groundwater, Acid Rain			
15 th	1 st	Current Issues in Environmental Pollution – Carbon Credits.			
	2 nd	Group discussion / Technical Quiz / Seminar			
	3 rd	Sessional Test -3			